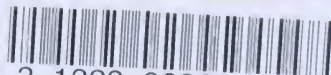


City of Newton




Hon. Wm. P. Ellison.

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THE
INAUGURAL ADDRESS
OF

HON. J. WESLEY KIMBALL,

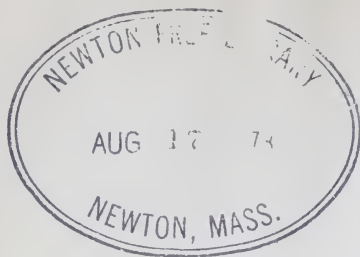
MAYOR OF NEWTON,

TO THE CITY COUNCIL

JANUARY 5, 1885.



NEWTON:
PRESS OF THE NEWTON JOURNAL.
1885.



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INAUGURAL ADDRESS OF MAYOR KIMBALL.

GENTLEMEN OF THE BOARD OF ALDERMEN AND OF THE
COMMON COUNCIL:—

We have assembled in accordance with our City Charter to assume the responsibilities and duties involved in our acceptance of the office of public trust to which we have been elected.

It should be our determination to discharge these important obligations with fidelity and to the best of our ability.

The measures adopted should be prudent and economical and also characterized by a comprehensive recognition of plans adapted to the permanent growth of Newton, that whatever pertains to the prosperity of our City and the welfare of the people shall in all respects be as perfect as may be.

Constant attendance, therefore, upon the meetings of your respective Boards and Committees, is essential to enable a thorough understanding and to secure just and equitable action upon the varied and important questions of public interest to be considered.

It is gratifying to state that the rate of taxation was one dollar on the thousand less in 1884 than in the previous year.

It is within your province to so adjust the appropriations and expenditures that further reductions may be made.

Newton is a most desirable place of residence, being favorably located, healthful, with excellent schools and churches, fine streets, pure water and other ample provisions for comfort and security; with the further advantage of a lower rate of taxation, the attractions would be abundant to invite very large accessions to our population and wealth.

The Boston and Albany Railroad Company is now engaged in building a double track road through Newton between Riverside and Newton Highlands, a distance of three and sixt-eight one-thousandths miles, which will probably be completed by September next.

The tract of land through which this road passes is for the most part elevated, and as available for building purposes as any part of the City. •

The completion of this work with a liberal policy on the part of the Railroad Company, and frequent light running trains, will tend to the rapid development of the district and a considerable increase in population and taxable property.

With this increase will come a demand for improvements, which should be reasonably met.

Another advantage of this enterprise in a social point of view is the connection to be established between our several villages, rendering inter-communication easy, and giving ready access to our City Offices, High School and other public places.

Contracts have been made with the Boston and Albany Railroad Company for the construction of a tunnel for foot passengers at Channing Crossing, and the building of a

bridge at Bowditch Street. The bridge is nearly ready for use, and work upon the Tunnel will be commenced early in the Spring.

Our City Charter provides for the election of members of the City Council for one year only. It would, in my opinion, be wise to amend the Charter so as to provide for the election of the Mayor, Aldermen and Councilmen, for a term of two years, allowing only a portion of members to retire at the same time.

A considerable part of the first year is required to become familiar with the City's business; a longer term would secure to the City the advantages gained by experience.

FINANCE.

On account of transactions of the year 1884

there is outstanding a Temporary Loan of	\$70,000	00
Bills unpaid	\$46,000	00
Less bills for new school-house		
at West Newton—to be		
provided for by the sale		
of City notes	2,000	00
	44,000	00
	<u>\$114,000</u>	<u>00</u>

Against which there is cash on hand . . . \$45,647 91

Due to the Treasury for moneys paid by order
of the City Council for new school-houses
at West Newton and Newton Centre—to

be repaid by the sale of City notes . . .	20,465	38
Uncollected Taxes good	67,500	00
	<u>\$133,613</u>	<u>29</u>

After paying all bills of 1884 there will be an
 estimated balance of unappropriated
 moneys in the Treasury amounting to . \$19,613 29
 And due from miscellaneous sources . . . 31,188 59

The total amount of payments made by the City Treasurer for the year ending Dec. 31st, 1884, was \$945,632.65, as follows :

Ordinary City Expenses	\$253,744 98
Interest	76,704 81
State, County and Bank Tax	59,682 72
Sinking Fund Commissioners	36,800 00
State Aid	1,815 50
Water Construction	24,586 41
Temporary Loans	320,000 00
Education	107,630 25
Funded Debt matured	20,000 00
New School Houses	43,415 22
Read Fund Income	1,252 76
	<hr/>
	\$945,632 65

Total receipts from all sources during the year ending
 Dec. 31st, 1884, was \$932,844 58, as follows :

City Taxes	\$415,771 30
Corporation and Bank Taxes	39,386 73
City Bonds sold	15,000 00
City Notes sold (New School Houses)	51,500 00
Premium on School Notes	584 01
Interest on Deposits	825 37
Interest on Taxes	2,170 60
Temporary Loans	300,000 00
State Aid	1,365 50

Sinking Fund Commissioners	20,000 00
Water Department	55,129 84
Miscellaneous	31,111 23
	<hr/>
	\$932,844 58

The permanent debt of the City Dec. 31, 1884, was as follows :

Town Notes 6½ per cent.	\$46,000 00
Town Notes 6 per cent.	187,000 00
Accrued Interest,	3,355 88
	<hr/>
	\$236,355 88

These Notes all mature by Mar.
10, 1894.

Municipal Bonds 5 per cent.	\$34,000 00
Accrued Interest	850, 00
	<hr/>
	\$34,850 00

Water Bonds 6 per cent.	600,000 00
“ “ 5 “	250,000 00
“ “ 4 “	115,000 00
Accrued Interest	25,400 00
	<hr/>
	\$990,400 00

Public Park Bonds 4 per cent.	25,000 00
Accrued Interest	250 00
	<hr/>
	\$25,250 00

School notes 4 per cent.	51,500 00
Accrued Interest	803 40
	<hr/>
	\$52,303 40

Uninvested portion of Kenrick Fund	1740 00
Accrued Interest	52 20
	<hr/>
	\$1792 20

\$1,340,951 48

To which should be added the amount paid and incurred for new School-houses at West Newton and Newton Centre, to be provided for by sale of City Notes . . .	22,465 38
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Total,	<u>\$1,363,416 86</u>
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The amount of Funded Debt with accrued interest December 31st, 1883, was	1,317,391 42
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Increase in the City Debt	<u>46,025 44</u>
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SINKING FUNDS.

The condition of the Sinking Funds Dec. 31st, 1884,
was as follows :

City Debt Sinking Fund	\$23,092 01
Water " " 	145,779 67
	<u>\$168,871 68</u>

To which should be added the amount appro- priated Dec. 29, 1884, for the City Debt Sinking Fund	10,800 00
--	-----------

Total,	<u>\$179,671 68</u>
Amount of Sinking Funds December 31st, 1883,	145,591 03

Increase	34,080 65
Increase in City Debt for 1884,	<u>46,025 44</u>

Total increase in Funded Debt for the year 1884	\$11,944 79
---	-------------

The increase in the City Debt is entirely on account of
building new School Houses and extending Water Mains.

During the year there has matured and been paid a
Note of \$20,000 00, which sum was paid from the City Debt
Sinking Fund.

There will mature a Town Note Oct. 3d, 1885, of \$20,000 00, which will be provided for from the City Debt Sinking Fund.

There will also mature a School Note Jan. 25th, 1885, of \$5150 00, to be provided for from the Tax Levy of 1885.

In 1883 the real estate was valued at	.	\$19,794,805 00
Personal estate valued at	. . .	7,329,283 00
		<u>\$27,124,088 00</u>

Taxable value of corporate stocks	. .	2,570,150 00
-----------------------------------	-----	--------------

Taxable value of bank stocks	. . .	850,000 00
		<u>\$30,544,238 00</u>

Total,		\$30,544,238 00
--------	--	-----------------

In 1884 the real estate was valued at	.	\$20,467,295 00
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Personal estate valued at	. . .	7,347,266 00
		<u>\$27,814,561 00</u>

Taxable value of corporate stocks	. .	2,746,700 00
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Taxable value of bank stocks	. . .	946,970 00
		<u>\$31,508,231 00</u>

Total,		\$31,508,231 00
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Increase in taxable property in 1884	.	\$963,993 00
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Value of real and personal property in the City of Newton, which is exempt from taxation under the provisions of the third and seventh divisions of section 5, chapter eleven of the Public Statutes:

Personal	\$510,131 00
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Real	848,700 00
		<u>\$1,358,831 00</u>

Total,		\$1,358,831 00
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The rate of tax per \$1000, in 1883, was as follows:

City	\$14 28
County	40
State	72
		<u>\$15 40</u>

The rate of tax per \$1000, in 1884, was as follows:

City	.	.	.	.	.	.	.	\$13 00
County	.	.	.	.	.	.	.	40
State	.	.	.	.	.	.	.	1 00
								———— \$14 40

READ FUND.

The income received from the Read Fund to December 31, 1884 was \$2156 27.

There have been expended in accordance with the will of the liberal donor, sums as follows:

For a picnic for children	.	.	\$225 00
For a course of scientific lectures	.		397 26
For the public library	.	.	344 00
For poor widows of Newton	.	.	280 00
For incidental matters	.	.	6 50

There is a balance on hand of \$903 51, to be distributed for the same generous purposes.

The principal, \$40,000, is safely invested.

HEALTH.

The importance of this subject commands special attention and should receive careful consideration. Suitable means should be promptly employed to discover and remove causes which endanger the public health.

Valuable information in this department is abundant and easily obtained, but needs a careful study.

A large amount of time is necessary to be given to the many details of the work and to the enforcement of the rules to secure satisfactory results.

This department is directed exclusively by the Board

of Aldermen, whose many and increasing duties in municipal affairs render it difficult for them to bestow to it all the time needed.

The consideration of matters pertaining to health, which are of an entirely different character from those of the ordinary and legitimate business of the City Council, and the great amount of time necessary to be given to it if thorough work is accomplished, renders it expedient to transfer the management of the Health Department to a board composed of persons whose experience and information in sanitary matters make them specially qualified for such work.

There are only two cities in the Commonwealth, including Newton, where such a system has not been adopted.

There are, I believe, citizens sufficiently interested to accept such appointment and without remuneration.

I recommend a Board of Health be constituted as follows:

One alderman, one councilman and three citizens at large.

The cost of this department for the year 1884 was \$2,203.47

It would be a public benefit if the people were provided with suitable places and conveniences for bathing. I recommend that arrangements be made for building bath-houses near the various ponds and lakes in the City, at small expense for public use. It would be a source of health and pleasure.

SEWERAGE.

This subject is one of the most important, intimately concerns the health and life of the people, and should

receive your careful and early investigation. It is a problem that is engaging the attention of governments and the serious consideration of the thoughtful.

The population of our city is becoming more centered. The necessity of provision for the disposal of waste flowage in the thickly settled localities is apparent.

I recommend your careful perusal of the report of the Special Committee on Sewerage, — an elaborate and carefully prepared paper of interesting and valuable information, and which will be of benefit to the City in its consideration of the methods and needs of sewerage.

For an immediate measure of public safety and convenience I recommend that the City own and control a sufficient equipment, including odorless excavators, for the prompt removal of contents of vaults and cess pools, and at a minimum cost to the citizens.

This would secure frequent removals, and contribute to the health and benefit of all. The additional advantage of responsible and efficient supervision would be secured, should the City assume the responsibility of the work. The amount paid in 1884 by citizens for emptying cess pools, etc., was over \$11,000 00.

SCHOOLS.

A characteristic of this City is the liberal provision it makes for educational purposes.

The importance that attaches to the mental training of the children and the general advantages of education, are well appreciated by our citizens.

The excellent reputation of our public schools has brought us many worthy citizens and largely added to our taxable property.

The superintendent and teachers are earnest and faithful in the performance of their important duties.

The number attending our public schools is :

Average attendance	3,430
Number of teachers	93
Number of school-houses occupied .	17

During the year the Williams and Eliot school-houses were completed and occupied.

There are two buildings in process of construction for school purposes ; one at West Newton, the other at Newton Centre, and both well advanced towards completion.

The High and Claflin school-houses are insufficient to accommodate the large number of pupils attending.

It would be convenient as well as appropriate, if the names by which the schools are known were placed upon the buildings.

The whole number of pupils at the public schools for the year 1884 was as follows :

SCHOOL.	WARD.	NUMBER.
High		365
Eliot	1	140
Lincoln	1	39
Claflin	2	171
Adams	2	199
Jackson	2	197
Pierce	3	213
Davis	3	198
Franklin	3	168
Williams	4	269
Hamilton	4	100
Hyde	5	206

Prospect	5	232
Oak Hill	5	19
Mason	6	395
Thompsonville	6	39
Bigelow	7	306
Underwood	7	174

 3,430

The expenses of the school department for the year 1884 were as follows :

Paid to the Superintendent	.	.	.	\$2,700 00
" " Teachers	.	.	.	75,927 06
" " Janitors	.	.	.	4,989 40
" " Secretary	.	.	.	300 00
" for Fuel	.	.	.	6,376 88
" for Evening Schools.	.	.	.	619 09
" " Transportation of Pupils	.	.	.	720 00
" " Books	.	.	.	5,206 19
" " furniture, supplies and incidentals	.	.	.	10,341 06

Total, 107,179 68

The amount of \$5,206 19 paid for books, was in consequence of the recent law obliging cities and towns to furnish text books free to the pupils.

The expenditures for public schools since Newton became a city have been as follows :

1874	.	.	.	.	.	\$97,353 65
1875	.	.	.	.	.	96,649 23
1876	.	.	.	.	.	86,533 64
1877	.	.	.	.	.	83,917 89
1878	.	.	.	.	.	83,208 63

1879	.	.	.	.	.	82,260	08
1880	.	.	.	.	.	83,613	47
1881	.	.	.	.	.	83,700	27
1882	.	.	.	.	.	91,252	72
1883	.	.	.	.	.	95,942	27
1884	.	.	.	.	.	107,179	68

The cost of maintaining so many schools is necessarily large. It is a matter of inquiry, to which the wisdom and experience of educators should be directed, whether the public school system may not be so modified as to produce even more practical results and at less per capita expenditure.

FREE LIBRARY.

The Library continues to be a valuable auxiliary to the educational interests of the City, and its privileges for study and culture are appreciated.

The number of volumes in the Library is 21,856. The number added during the year was 1379; of which 111 were gifts.

VOLUMES ADDED IN 1884.

Literature.

Prose, fiction, and juvenile reading	.	.	.	.	.	316
Essays, poetry, and drama	.	.	.	.	.	120
Periodicals	.	.	.	.	.	157
Foreign literature	.	.	.	.	.	6

History.

Geography and travels	.	.	.	.	.	117
Biography	.	.	.	.	.	102
History	.	.	.	.	.	84

Arts and Sciences.

Natural science and industrial arts . . .	178
Political and social science	78
Theology	30
Reference library	191
The cost of the books purchased was .	\$1,650 14
The circulation in 1884 was	83,261
The number taken directly from the Library was	41,935

The balance, 41,326, being distributed by the daily delivery as follows :

Newtonville	9,386
Newton Centre	9,032
Auburndale	6,938
Newton Highlands	4,658
West Newton	4,607
Upper Falls	4,383
Lower Falls	1,856
Nonantum	466

The annual expense of the daily delivery is \$1,200.

The largest circulation is of fiction ; the next of essays and poetry ; then of travels ; next of scientific works.

CIRCULATION BY CLASSIFICATION.

	Per ct.
Prose fiction, and juvenile reading .	67.25
Essays, poetry and drama . .	7.14
Periodicals	2.00
Foreign literature . . . . .	.35
Geography and travels	7.33
Biography	3.76
History	4.63

Natural science and industrial arts	5.77
Political and social science . . . . .	.60
Theology	1.00
Reference library . . . . .	.16
	<hr/>
	99.99+

The reading room is well-supplied with magazines and papers.

The cost of maintaining the Library for 1884 was \$8,365 85.

The Library also received an annual income from

Spear Art Fund	\$70 00
Jewett Art Fund	315 00
Read Fund	344 00

The Newton Athenæum at West Newton is practically a free library.

The number of volumes in the Library is 4500.

The circulation for the year 1884 was 9640.

It has also a reading room, to which the City has for several years contributed \$250 each year, which I recommend to be continued.

WATER DEPARTMENT.

The importance and advantage to the health and comfort of the people, of an ample supply of pure water is everywhere acknowledged and appreciated.

Newton is fortunate in the quality of its water and the supply is sufficient to permit of liberal use.

The pumping station, reservoir and filter basin are in good order; the foundations put in at the pumping station a year ago for the support of the engine have proved sufficient and satisfactory.

The whole department is under skilful management.

An advantageous contract has been made for a supply of water main for the year.

There was laid last year 10,110 feet of main, making a total of 69½ miles.

One hundred and seventy-seven services were put in; making a total of 2917.

The number of hydrants is 427.

The average daily consumption of water in 1884 was 532,804 gallons.

The receipts of the Water Department for 1884 was \$49,769 01, of which \$12,127 56 was paid by the City.

EXPENDITURES.

Maintenance	\$13,289 69
Interest on Bonds	52,500 00
Sinking Fund for Water Dept .	16,000 00
Amount of Water Bonds issued	965,000 00

The receipts of the Department have steadily increased from \$17,981 17 in 1877 to \$49,769 01 in 1884.

PUBLIC PROPERTY.

The public buildings of the City consist of a City Hall, 19 school-houses, besides two in process of construction, a public library, armory, pumping station with dwelling house, Almshouse and nine buildings used by the Fire, Highway and Police departments.

A large responsibility devolves upon this department, in making contracts, supervising new work, and keeping so many buildings in repair.

There was paid for new school houses in 1883, \$30,472.81, and in 1884, \$43,193.75.

The buildings are constructed chiefly of wood, only five

being of brick, and though in fair order the wooden buildings require painting and some repairs.

The City Hall is in special need of repainting and I hope may receive such improvement at an early day.

I recommend that when the City erect more buildings they be constructed of brick or stone as being safer, more economical and appropriate for public buildings.

Though of greater cost in the beginning, yet in a number of years more than the difference in cost and interest would be saved in the item of repairs.

The cost of this department for the year 1884, exclusive of new buildings was \$12,600 24.

PUBLIC PARKS.

During the year orders have been passed and a plan adopted for the ornamentation and completion of Farlow Park. The sum of \$27,928.17 has already been expended for improvements and the purchase of land. The additional sum of \$10,000 will be required to finish the same in accordance with the plan.

Assessments for betterments have been laid by authority of the Act of the Legislature, granting the establishment of such public grounds, amounting to \$21,635.47.

A tract of land, situated in Ward 3, known as Lincoln Park and another in Ward 4, known as Walcott Park, have been given to the City on condition that they be maintained as public parks.

These with the other parks in the several wards, will need small expenditures for improvement and care.

The amount expended on account of Public Parks for the year 1884 was \$2,299.53.

STREET LIGHTS.

There has been an improvement in this department, the light furnished being of better quality, the lamps better cared for and more promptly lighted.

The contract for lighting the streets is much better than any heretofore made; a sufficient reduction in price was secured to enable the department to provide 43 more lights with the same amount of appropriation of the previous year.

The agreement that the streets shall be better lighted every night when artificial light is needed should be more rigidly enforced.

During the year 43 new lamps have been added, making the total number now in use 1233, of which 769 are lighted by gas and 464 by oil.

Special care has been taken in the location of new lamps that they may be distributed to the best advantage for the public.

The cost of this department for the year 1884 was \$20,162 52.

The fuel supplied for the public buildings — excepting the Pumping Station — was purchased for \$5 48 per ton, delivered. The cost for the year 1884 was \$8,400 00.

FIRE DEPARTMENT.

This department is in excellent working order and thoroughly equipped with all necessary modern appliances.

During the year a new hose reel has been purchased and located at Ward Three.

Steamer 3 at Ward Six has been thoroughly repaired.

All the apparatus is in fine condition, and in all respects equal to any in similar departments.

The Fire Alarm Telegraph requires new poles to be substituted for those that have become defective; otherwise it is in good order.

Two new Fire Alarm signal boxes have been added, making the total number fifty-one.

Twenty-eight new hydrants have been added, making the total number 427.

By a recent ordinance the number of firemen has been reduced and now consists of seventy-three men, including the officers.

The compensation of the call men has been increased thirty dollars a year, but, by the decrease in number, the total pay has not been materially changed, nor has the efficiency of the department been impaired.

The number of alarms responded to dur-

ing the year was	51
Loss by fire	\$35,441 70
Insurance on the same	176,450 00
Insurance paid on same	32,651 70
Assessed valuation of real estate at	
risk	124,460 00
Hose used at fires (number of feet)	15,850
Miles travelled by apparatus	461
Time of service (number of hours)	225

I renew a recommendation made last year, and for the reasons then given, that the various school-houses be provided with private fire alarm signal boxes.

The cost of the department for the year 1884 was \$24,222 20

The inspection of public buildings is performed by the Chief of the Fire Department.

During the year one hundred and thirteen new and twenty-one remodelled buildings have been inspected.

By ordinance parties proposing to build are required to notify the City of such intention.

HIGHWAY DEPARTMENT.

This is a large and very important department and involves great care, attention and discrimination in its management. The demands upon it are constant and increasing.

Our citizens are not satisfied with ordinarily kept streets, but require and are accustomed to a high standard of roads.

The reconstruction, drainage and repairs upon our very large extent of highways involve the expenditure of large sums of money.

New streets are being made and accepted by the City. Care should be taken that they conform to the requirements in width and quality.

No new street should be accepted or the grade of a street changed until the abutters waive all claim to damages, or if damages are allowed they should be agreed upon before the work is commenced.

This suggestion also applies to any undertaking of the City where there is liability to difference of opinion in regard to damage or benefit to citizens, that recourse to the betterment law may if possible be avoided.

The work upon the streets would be more satisfactorily performed and the condition of the roads uniformly better, if the work in the early part of the year was confined

entirely to repairing and putting the streets in as good order as possible, so that when large works of reconstruction or drainage are undertaken, the whole force can be employed, thus finishing them more rapidly and with less expense.

In the employment of men by the City, citizens should have the preference.

It has become a custom to water some portion of the streets.

The practice possesses many advantages; aside from the comfort to our citizens, it is decidedly an economical measure for the preservation of the streets, saving to this department a large expense for repairs and the supply of material.

It would be a prudent expenditure to largely extend the territory to be watered, which can be done at a small expense.

The cost to the City outside the water furnished for 1884 was \$2,200 00.

The department is unusually well supplied with machinery, tools and material for road making. The policy of the City Council is to encourage the laying of concrete sidewalks, and has for a number of years expended for such purpose about \$5000 each year, the abutters paying an equal amount. Concrete walks, if properly made and of good material, will wear from eight to ten years, after which repairs are needed. There are many sidewalks that are badly out of repair and unsafe for use; it is important that these defects should be promptly remedied, which will not only be appreciated by the public, but possibly result in saving the City from damages likely to occur.

The cost of this department for the year 1884 was \$81,083 93.

CITY ENGINEER'S DEPARTMENT.

The duties of the Engineer are to make all plans and surveys pertaining to the streets, drains, lands, sewers and Water Works, and to inspect all plumbing.

In addition to the work as defined by ordinance he has made a sanitary survey of the City for the Joint Special Committee on Sewerage.

He is also engaged, as the routine work of the office will allow, in extending the general survey of the City topographically, and the making of a complete set of sectional maps.

This work will be of great value to the City when finished, in the economic design and development of all internal improvements. Its importance warrants a sufficient appropriation to effect its early completion.

The cost of this department for the year 1884 was \$6,750 00.

POOR DEPARTMENT.

The interests of the City and the needs of the destitute may safely be left in the control of the Board of Overseers.

Persons who by reason of infirmity or other misfortune apply for aid are properly treated. Care is also taken that the City is reimbursed for assistance rendered persons, chargeable to other cities and towns.

The City Farm and Almshouse are well carried on and the buildings are in good order.

The inmates number at present 28; many are feeble and advanced in years; the ages of twelve of them range from

seventy-two to one hundred and six years.

The provisions made for their comfort are liberal. The house is heated by steam, the rooms neatly kept and plenty of wholesome food provided.

The cost of maintaining the Almshouse for 1884 was \$4,120; the cost of assisting poor out of Almshouse for 1884, \$7,076 00.

POLICE DEPARTMENT.

The regular force consists of the City Marshal, a sergeant and fourteen patrolmen.

This department has been well conducted, good order preserved, with increased harmony of action.

The large area to be covered and the growing demands upon the department make it necessary, to insure prompt and efficient enforcement of the laws, to employ more men; during most of the year it was found necessary to employ two special officers. I recommend they be appointed permanently.

A private telephone line has been put up for the use of the police only, which is of great advantage, securing speedy and private communication with headquarters and each other, — an important feature in police work.

It will be my endeavor as heretofore, through the aid of the police, to execute and enforce without exception, all the rules, ordinances and laws governing the City.

The cost of this department for the year 1884 was \$17,752 00.

CLAFILIN GUARD.

Our military organization, Company C, Fifth Regiment, Mass. Volunteer Militia, maintains its high rank in the regi-

ment to which it belongs, as well as in the estimation of our citizens.

While no exigency is apprehended that will demand their services, it is nevertheless a wise economy to be prepared for emergencies which may arise requiring prompt and vigorous treatment.

The City made a good purchase of the old Channing Church, which is now being fitted up for an Armory for the Claflin Guard, and will probably be ready for occupancy about April first.

It is centrally located, easily accessible, and when completed will be one of the best in the State.

The land and buildings completed will cost about \$11,500 00.

The State pays the City for rental \$400 per annum.

The building contains a large hall which will be a great convenience for Newton, being a suitable place for entertainments and a ward room for Ward One.

The net cost to the City for the year 1884 was \$1,052 00.

REGISTRATION OF VOTERS.

Chapter 298 of the Acts of 1884 required the appointment of a Board of Registration to be composed of three "able and discreet persons" and the City Clerk, the two leading parties to be equally represented in the appointments made.

A strict interpretation of the law would have made it necessary to erase all names on the voting lists and compel an entire new registration.

The Board fortunately was able to pursue a course which saved the citizens such inconvenience.

Ample opportunity has been given at the City Hall and in the several wards for registration.

The Board has actively and faithfully performed the duties devolving upon it and the many changes from the usual course required by the statute have been carefully executed.

ELECTIONS.

Chapter 299 of the acts of 1884 provided for the appointment instead of election of the ward or election officers.

The two parties casting the largest vote at the preceding election to be entitled to equal representation.

The use of the patent ballot box was also required, and the method of conducting the elections radically changed.

CIVIL SERVICE.

Chap. 320 acts of 1884 creates a Civil Service Commission for the Commonwealth and provides for appointment to office under the rules of such Commission. A limited number of offices in this city will be affected by the Statutes and a board of examiners will be duly appointed to act under the rules which go into effect early in the year.

CONCLUSION.

Having been entrusted by our fellow-citizens with the management and control of the City's affairs, we should endeavor by the continual exercise of diligence and intelligent care, to execute these important trusts to the best advantage of the City and benefit to our citizens.

CITY OF NEWTON.

AUDITOR'S ANNUAL REPORT

OF THE

FINANCES

OF THE

CITY OF NEWTON,

FOR THE

YEAR ENDING DEC. 31, 1885.

No. CCVII.



Newton :

PRESS OF THE NEWTON JOURNAL.

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OFFICERS
OF THE
NEWTON CITY GOVERNMENT,
1885.

Mayor.

J. WESLEY KIMBALL.

BOARD OF ALDERMEN.

JOHN Q. HENRY, *President.*

Ward One.

ENOS C. SOULE.

Ward Two.

BENJAMIN S. GRANT.

Ward Three.

JAMES H. NICKERSON.

Ward Four.

NOAH W. FARLEY.

Ward Five.

GEORGE PETTEE.

Ward Six.

EDWARD H. MASON.

Ward Seven.

JOHN Q. HENRY.

Clerk of Board of Aldermen.

ISAAC F. KINGSBURY.

COMMON COUNCIL.

SAMUEL L. POWERS, *President.*

Ward One.

RANK A. DEARBORN
HERBERT F. BENT.

Ward Two.

ALBERT F. UPTON.
HENRY F. ROSS.

Ward Three.

GEORGE D. DIX.
ANDREW J. FISKE.

Ward Four.

GEORGE M. FISKE.
WINTHROP B. ATHERTON.

Ward Five.

JOHN F. HECKMAN.
EDWARD M. BILLINGS.

Ward Six.

FRANK EDMANDS.
CHARLES W. ROSS.

Ward Seven.

SAMUEL L. POWERS.

JAMES W. FRENCH.

Clerk of Common Council.

ALBERT S. GLOVER.

City Clerk.

ISAAC F. KINGSBURY.

City Treasurer and Collector of Taxes.

JOHN A. KENRICK.

Deputy Collector.

MOSES CLARK, JR.

City Auditor.

BENJAMIN F. OTIS.

City Solicitor.

WINFIELD S. SLOCUM.

City Engineer.

ALBERT F. NOYES.

Superintendent of Streets.

WILLIAM E. FULLER.

Water Registrar.

ALBERT S. GLOVER.

Superintendent of Water Works.

H. N. HYDE, JR.

Agent of the Board of Health.

NATHAN MOSMAN.

City Messenger.

JOSEPH D. WELLINGTON.

ASSESSORS' DEPARTMENT.

Assessors.

ISAAC HAGAR, Chairman	-	-	Term expires January, 1886
HOWARD B. COFFIN, Secretary	-	-	" " " 1887
SAMUEL M. JACKSON	-	-	" " " 1888

Assistant Assessors (Elected Annually).

Ward 1.—DEXTER WHIPPLE.	Ward 4.—RUFUS MOULTON.
Ward 2.—ELIHU SMEAD.	Ward 5.—WILLIAM E. CLARKE.
Ward 3.—OSCAR F. LUCAS.	Ward 6.—GEORGE WARREN.
	Ward 7.—JOHN WARNER.

SCHOOL COMMITTEE.

HON. J. WESLEY KIMBALL, Mayor, Chairman ex-officio.
 SAMUEL L. POWERS, President Common Council ex-officio.
 FISHER AMES, Chairman.
 ISAAC HAGAR, Secretary.
 THOMAS EMERSON, Superintendent.

Elective Members.

Present Term of Office.

Ward 1.—EDMUND W. CONVERSE	-	Expires January, 1886
CHARLES H. STONE	-	" " 1886
Ward 2.—JOHN W. DICKINSON	-	" " 1886
A. AMELIA SMEAD	-	" " 1886
Ward 3.—GEORGE A. WALTON	-	" " 1888
FISHER AMES	-	" " 1888
Ward 4.—WILLIAM S. SMITH	-	" " 1888
ISAAC HAGAR	-	" " 1888
Ward 5.—JOHN A. GOULD	-	" " 1887
ALBERT B. PUTNEY	-	" " 1887
Ward 6.—CHARLES C. BARTON	-	" " 1887
WILLIAM D. PHILBRICK	-	" " 1887
Ward 7.—GEORGE W. SHINN	-	" " 1887
ALONZO S. WEED	-	" " 1888

CITY GOVERNMENT.

District Committees.

NEWTON CENTRE DISTRICT.

CHARLES C. BARTON	-	-	-	-	Newton Centre.
WILLIAM D. PHILBRICK	-	-	-	-	Newton Centre.
JOHN A. GOULD	-	-	-	-	Newton Upper Falls.
ALBERT B. PUTNEY	-	-	-	-	Newton Highlands.
SAMUEL L. POWERS	-	-	-	-	Newton.

UPPER FALLS DISTRICT.

JOHN A. GOULD	-	-	-	-	Newton Upper Falls.
ALBERT B. PUTNEY	-	-	-	-	Newton Highlands.
ISAAC HAGAR	-	-	-	-	Newton Lower Falls.
WILLIAM D. PHILBRICK	-	-	-	-	Newton Centre.
CHARLES C. BARTON	-	-	-	-	Newton Centre.

LOWER FALLS DISTRICT.

WILLIAM S. SMITH	-	-	-	-	Auburndale.
FISHER AMES	-	-	-	-	West Newton.
ISAAC HAGAR	-	-	-	-	Newton Lower Falls.

WEST NEWTON DISTRICT.

FISHER AMES	-	-	-	-	West Newton.
J. W. DICKINSON	-	-	-	-	Newtonville.
GEORGE A. WALTON	-	-	-	-	West Newton.
WILLIAM S. SMITH	-	-	-	-	Auburndale.
A. AMELIA SMEAD	-	-	-	-	Newtonville.

NEWTONVILLE DISTRICT.

J. W. DICKINSON	-	-	-	-	Newtonville.
A. AMELIA SMEAD	-	-	-	-	Newtonville.
ALONZO S. WEED	-	-	-	-	Newton.
EDMUND W. CONVERSE	-	-	-	-	Newton.
CHARLES H. STONE	-	-	-	-	Newton.

NEWTON DISTRICT.

GEORGE W. SHINN	-	-	-	-	Newton.
CHARLES H. STONE	-	-	-	-	Newton.
ALONZO S. WEED	-	-	-	-	Newton.
EDMUND W. CONVERSE	-	-	-	-	Newton.
SAMUEL L. POWERS	-	-	-	-	Newton.

CITY GOVERNMENT.

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Standing Committees of the Board.

HIGH SCHOOL.

FISHER AMES.	GEORGE W. SHINN.
J. W. DICKINSON.	EDMUND W. CONVERSE.
WILLIAM S. SMITH.	CHARLES C. BARTON.
WILLIAM D. PHILBRICK.	THE MAYOR, ex-officio.

EVENING SCHOOLS.

GEORGE W. SHINN.	ALONZO S. WEED.
GEORGE A. WALTON.	

MUSIC.

GEORGE W. SHINN.	A. AMELIA SMEAD.
ALBERT B. PUTNEY.	

DRAWING AND WRITING.

A. AMELIA SMEAD.	CHARLES H. STONE.
ALBERT B. PUTNEY.	

INDUSTRIAL DRAWING.

JOHN A. GOULD.	CHARLES H. STONE
SAMUEL L. POWERS.	

SEWING.

A. AMELIA SMEAD.	GEORGE W. SHINN.
WILLIAM D. PHILBRICK.	

TEXT-BOOKS.

CHARLES C. BARTON.	WILLIAM S. SMITH.
ALONZO S. WEED.	

RULES AND REGULATIONS.

WILLIAM S. SMITH.	ALONZO S. WEED.
GEORGE A. WALTON.	

SALARIES.

EDMUND W. CONVERSE.	SAMUEL L. POWERS.
JOHN W. DICKINSON.	

CITY GOVERNMENT.

SCHOOLHOUSES.

ISAAC HAGAR.

CHARLES H. STONE.

JOHN W. DICKINSON.

ACCOUNTS AND PRINTING.

ISAAC HAGAR.

FISHER AMES.

GEORGE A. WALTON.

WATER BOARD.

At Large.

EDWARD W. CATE, President.

FRANCIS A. DEWSON.

CHARLES FRED CREHORE.

From the Board of Aldermen.

NOAH W. FARLEY.

From the Common Council.

ALBERT F. UPTON.

ALBERT S. GLOVER, Clerk.

POOR DEPARTMENT.

Board of Overseers.

THE MAYOR, ex-officio, Chairman.

Ward 1—DEXTER WHIPPLE.

Ward 4—NATHAN MOSMAN.

Ward 2—EDWARD S. COLTON.

Ward 5—HOSEA C. HOYT.

Ward 3—GEORGE H. INGRAHAM.

Ward 6—GEORGE WARREN.

Ward 7—JOHN WARNER.

NATHAN MOSMAN, Clerk of Board.

NATHAN MOSMAN, City Almoner.

NATHANIEL D. MOODY, Warden of Almshouse.

MRS. ELIZA A. MOODY, Matron.

CITY GOVERNMENT.

xiii

BOARD OF HEALTH.

THE MAYOR, *ex officio*.

From the Board of Aldermen.

BENJAMIN S. GRANT, President.

From the Common Council.

†JOHN F. HECKMAN.

At Large.

J. FRANKLIN FULLER.

JESSE F. FRISBIE.

*CHARLES C. BARTON.

Agent of Board.

NATHAN MOSMAN.

Clerk.

ISAAC F. KINGSBURY.

Agent for Inspection of Plumbing.

ALBERT F. NOYES.

FIRE DEPARTMENT.

HENRY L. BIXBY, Chief of Department.

WALTER B. RANDLETT,

Assistant Chief of Department and Fire Alarm Telegraph Operator.

TRUSTEES OF PUBLIC LIBRARY.

At Large.

JOHN L. FARLOW, President.

B. K. PEIRCE, Superintendent.

WILLIAM CLAFLIN.

A. LAWRENCE EDMANDS.

JULIUS L. CLARKE.

HANNAH P. JAMES, Librarian.

*Resigned Sept. 1. Otis Pettee appointed to fill vacancy Oct. 19.

†Resigned Oct. 12. Frank Edmands appointed to fill vacancy Oct. 19.

Sinking Fund Commissioners and Trustees of the Read Fund.

GEORGE S. BULLENS, Chairman.
 ALDEN SPEARE. GEORGE C. LORD.
 BENJAMIN F. OTIS, Secretary.

Registrars of Voters.

GEORGE E. BRIDGES, Chairman.
 ISAAC F. KINGSBURY, Clerk.
 GEORGE H. BOURNE. RICHARD T. SULLIVAN.

CIVIL SERVICE EXAMINERS.

LUCIUS G. PRATT, Chairman.
 EZRA S. FARNSWORTH, Secretary.
 ARTHUR W. POPE.

POLICE DEPARTMENT.

DANIEL M. HAMMOND, City Marshal.
 CHARLES F. RICHARDSON, Sergeant of Police.

Police Officers.

JAMES D. HENTHORN.	CHARLES P. HUESTIS.
WILLIAM C. EMERSON.	ROBERT S. HARRISON.
NOAH F. BOSWORTH.	CHARLES E. DAVIS.
GEORGE E. F. BAKER.	FRANK B. FLETCHER.
CHARLES O. DAVIS.	JOHN PURCILL.
EDSON C. HOLMES.	RUFUS H. MOULTON.
JOHN RYAN.	W. G. BOSWORTH.
JOHN W. CONROY, Jr.	AMBROSE M. FULLER.

ELECTION OFFICERS 1885.**Ward One.**

Warden	JESSE F. FRISBIE.
Deputy Warden	R. ORLANDO EVANS.
Clerk	SETH C. STEVENS.
Deputy Clerk	GEORGE R. ASTON.
Inspector	EDWARD L. LEMON.
Inspector	DEXTER WHIPPLE.
Deputy Inspector	GEORGE LANE, 2d.
Deputy Inspector	MICHAEL HURLEY.

Ward Two.

Warden	HENRY P. DEARBORN.
Deputy Warden	EZRA S. FARNSWORTH.
Clerk	WILLARD S. HIGGINS.
Deputy Clerk	ALFRED B. TAINTER.
Inspector	LAWRENCE H. CRANITCH.
Inspector	JAMES D. BILLINGS.
Deputy Inspector	J. H. WILLIAMS.
Deputy Inspector	J. CLIFTON WHITNEY.

Ward Three.

Warden	GEORGE H. INGRAHAM.
Deputy Warden	FRANK E. HUNTER.
Clerk	J. HARRIS REED.
Deputy Clerk	JOHN A. GAW.
Inspector	HARVEY C. WOOD.
Inspector	CHARLES F. TUTTLE.
Deputy Inspector	ARTHUR R. COE.
Deputy Inspector	F. H. HUMPHREY.

Ward Four.

Warden	GEORGE E. JOHNSON.
Deputy Warden	BERNARD EARLY.
Clerk	HENRY H. MATHER.
Deputy Clerk	G. LYMAN SNOW.
Inspector	HENRY WASHBURN.
Inspector	EVERETT E. MOODY.
Deputy Inspector	WILLIAM A. LEONARD.
Deputy Inspector	GEORGE W. CHAMBERLAIN.

Ward Five.

Warden	ALBERT J. GROVER.
Deputy Warden	JOHN W. HOWE.
Clerk	CHARLES H. HALE.
Deputy Clerk	G. H. OSBORNE.
Inspector	WILLIAM T. LOGAN.
Inspector	JOHN BRUNDRETT.
Deputy Inspector	JOHN P. TENNEY.
Deputy Inspector	PHILIP T. BEGLEY.

Ward Six.

Warden	SAMUEL M. JACKSON.
Deputy Warden	JAMES D. GREENE
Clerk	ROBERT R. BISHOP, JR.
Deputy Clerk	STEPHEN BARTLETT.
Inspector	JAMES W. HILL.
Inspector	HENRY H. READ.
Deputy Inspector	R. M. SALTONSTALL.
Deputy Inspector	B. W. CROCKER.

Ward Seven.

Warden	J. EDWIN WARNER.
Deputy Warden	CHARLES W. BASSETT.
Clerk	MOSES CLARK, JR.
Deputy Clerk	HENRY C. DANIELS.
Inspector	GEORGE W. LAMSON.
Inspector	GEORGE S. WOODBRIDGE.
Deputy Inspector	FRED'K A. WETHERBEE.
Deputy Inspector	EDWIN HOLMAN.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.**Committee on Finance and Salaries.****ALDERMEN.**

JOHN Q. HENRY.

BENJAMIN S. GRANT.

PRESIDENT SAMUEL L. POWERS.

COUNCILMEN.

GEORGE M. FISKE.

FRANK A. DEARBORN.

Committee on Accounts.**ALDERMEN.**

NOAH W. FARLEY.

BENJAMIN S. GRANT.

COUNCILMEN.

JOHN F. HECKMAN.

FRANK EDMANDS.

HERBERT F. BENT.

Committee on Public Property and Burial Grounds.

ALDERMEN.

GEORGE PETTEE.

ENOS C. SOULE.

COUNCILMEN.

WINTHROP B. ATHERTON.

JAMES W. FRENCH.

HENRY F. ROSS.

Committee on State Aid, Soldiers' Relief and Military Affairs.

ALDERMEN.

ENOS C. SOULE.

JAMES H. NICKERSON.

COUNCILMEN.

ALBERT F. UPTON.

GEORGE M. FISKE.

EDWARD M. BILLINGS.

Committee on Fuel and Street Lights.

ALDERMEN.

BENJAMIN S. GRANT.

NOAH W. FARLEY.

COUNCILMEN.

JAMES W. FRENCH.

FRANK EDMANDS.

JOHN F. HECKMAN.

Committee on Fire Department.

ALDERMEN.

ENOS C. SOULE.

GEORGE PETTEE.

COUNCILMEN.

WINTHROP B. ATHERTON.

FRANK EDMANDS.

ANDREW J. FISKE.

Committee on Highways, Streets and Ways, Sidewalks, Drains and Sewers.

ALDERMEN.

JAMES H. NICKERSON.

JOHN Q. HENRY

COUNCILMEN.

GEORGE M. FISKE.

ALBERT F. UPTON

CHARLES W. ROSS.

CITY GOVERNMENT.

Committee on Printing.

ALDERMAN.

EDWARD H. MASON.

COUNCILMEN.

WINTHROP B. ATHERTON.

EDWARD M. BILLINGS.

Committee on Ordinances.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON.

COUNCILMEN.

JOHN F. HECKMAN.

HERBERT F. BENT.

ANDREW J. FISKE.

Committee on Claims.

ALDERMEN.

JOHN Q. HENRY.

EDWARD H. MASON.

COUNCILMEN.

GEORGE D. DIX.

HENRY F. ROSS.

HERBERT F. BENT.

Committee on Almshouse and Poor.

ALDERMAN.

GEORGE PETTEE.

COUNCILMEN.

GEORGE D. DIX.

HENRY F. ROSS.

Committee on Assessors' Department.

ALDERMAN.

N. W. FARLEY.

COUNCILMEN.

EDWARD M. BILLINGS.

ANDREW J. FISKE.

Highway Surveyors.

ALDERMEN.

JAMES H. NICKERSON.

JOHN Q. HENRY.

COUNCILMEN.

GEORGE M. FISKE.

ALBERT F. UPTON.

CHARLES W. ROSS.

JOINT SPECIAL COMMITTEES.

Committee on Parks.

ALDERMEN.

BENJAMIN S. GRANT.

N. W. FARLEY.

GEORGE PETTEE.

COUNCILMEN.

JAMES W. FRENCH.

GEORGE D. DIX.

CHARLES W. ROSS.

FRANK A. DEARBORN.

Committee on Sewerage.

ALDERMEN.

EDWARD H. MASON.

JAMES H. NICKERSON.

COUNCILMEN.

JAMES W. FRENCH.

GEORGE D. DIX.

HENRY F. ROSS.

Committee on Rules and Orders.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON.

COUNCILMEN.

FRANK A. DEARBORN.

EDWARD M. BILLINGS.

ANDREW J. FISKE.

JAMES W. FRENCH.

STANDING COMMITTEE. BOARD OF MAYOR AND ALDERMEN.

Committee on Police.

THE MAYOR.

EDWARD H. MASON.

ENOS C. SOULE.

Committee on Licenses, Weights and Measures.

ALDERMEN.

JOHN Q. HENRY.

NOAH W. FARLEY.

CITY GOVERNMENT.

Committee on Elections.

ALDERMEN.

GEORGE PETTEE.

JAMES H. NICKERSON.

STANDING COMMITTEE, BOARD OF ALDERMEN.

Committee on Enrolled Ordinances and Resolutions.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON.

STANDING COMMITTEE OF THE COMMON COUNCIL.

Committee on Enrolled Ordinances and Resolutions.

COUNCILMEN.

JOHN F. HECKMAN.

GEORGE D. DIX.

HENRY F. ROSS.

Clerk of Committees.

BENJAMIN F. OTIS.

DUTIES OF THE AUDITOR OF ACCOUNTS.

The following are the important provisions of the Ordinance setting forth the duties of the City Auditor:

The Auditor shall receive all accounts and claims against the City, after the same shall have been certified by the Committee, or the proper certifying officers authorized on behalf of the City to make the contract, or cause the expenditure to be made. He shall carefully examine all such accounts and claims, see that they are correctly cast and duly authorized by the City Council or its order, and having certified to the same, shall present them properly filed and labelled to the Committee on Accounts.

The Auditor shall act as Clerk of the several standing and joint standing committees, and as secretary of the Sinking Fund Commissioners, and Trustees of the Read Fund without extra compensation.

The Auditor, on or before the first day of March annually, shall make a report to the City Council of the receipts and expenditures of the past financial year, in detail, and shall give, in his report, a schedule of the property of the City and of leases thereof, and an exhibit of the loans or debts, bearing interest, due from the City, the rates of interest, and the time when payable. He shall each month transmit to the Mayor, and each member of the City Council, a statement showing the amounts expended and unexpended of each appropriation.

AUDITOR'S REPORT.

CITY OF NEWTON.

AUDITOR'S DEPARTMENT,
MARCH 1, 1886.

To the Honorable City Council.

GENTLEMEN,—In conformity with the requirements of the several sections of the City Ordinances, the undersigned has the honor to present herewith the Annual Report of the receipts and expenditures of the City of Newton for the financial year commencing Jan. 1, and terminating Dec. 31, 1885, with a detailed account of each department, a statement of the liabilities and assets, a table showing the funded debt, the rates of interest, and times the notes and bonds are payable, another showing appropriations, Mayor's drafts, treasurer's payments and balances, a statement of the Sinking Funds, and of the Read Fund, a summary statement of receipts and expenditures for the year, a statistical table, showing the number of Polls, Real and Personal Estate, Town, City, County and State Taxes, Rate of Taxation, Appropriations, etc., with the number of houses from year to year, for twenty-five consecutive years. Among the remaining tabulations will be found a schedule of the City property so arranged as to show in separate classification the property belonging to the Almshouse, Fire, Highway, School, and other Departments. In addition to these is also, given such other information appertaining to the fiscal interests of the City as may possess general interest.

Respectfully Submitted,

BENJAMIN F. OTIS,

Auditor.

CITY OF NEWTON, DECEMBER 31, 1885.

To the Honorable Mayor and City Council.

GENTLEMEN,—In accordance with Section 11 of Ordinance 4, I have the honor to lay before you the statement of the Receipts and Expenditures of the Treasury Department for the year ending December 31st, 1885.

Very respectfully yours,

JOHN A. KENRICK.

Treasurer and Collector.

CITY TREASURER'S ACCOUNT.

City of Newton in Account with JOHN A. KENRICK, Treasurer and Collector.

DR.

Almshouses, expenses and repairs	\$4,882 10
Armory, rent and expenses	884 77
Auburndale School House	1,449 51
Books, stationery and printing	1,826 60
Board of Health	2,319 50
Burial grounds	250 00
Commonwealth of Massachusetts, State tax .	24,135 00
Commonwealth of Massachusetts, Nat. Bank tax	954 47
Corporation tax	16 02
County of Middlesex, county tax	18,302 55
Conveyance of pupils	900 00
Curbing	1,549 14
City Hall expenses	1,350 29
City engineers' department	6,826 57
Drains and culverts	8,663 26
Evening schools	717 54
Farlow Park betterments abated	56 00
Fire department	23,946 25
Funded debt, 4 per cent. school note . .	5,150 00
Funded debt, 6 per cent. town note . .	20,000 00

Amount carried forward \$124,179 57

<i>Amount brought forward</i>	\$124,179 57
General appropriation for schools	92,138 76
Gravel land	3,322 33
Highways, general repairs	68,371 77
Highways, widening and improvements	17,813 78
Improvements on public squares	9,096 80
Interest on city loans, temporary and permanent	25,141 03
Interest on water bonds	53,100 00
Indigent soldiers and sailors	900 00
Kenrick fund	165 20
Land damages	2,536 96
Memorial day	400 00
Miscellaneous expenses	15,644 48
New armory	5,397 08
Newton free library	7,063 62
Newton Centre school house	9,019 63
Nonantum school house	945 16
Overlay, 1882	1 78
Overlay, 1883	2 00
Overlay, 1884	1,107 94
Overlay, 1885	2,406 85
Police department	19,725 30
Poor out of Almshouse	8,182 68
Public property	11,037 77
Removal of ashes	3,502 13
Read fund	1,594 27
Salaries	14,386 62
School incidentals	13,018 80
Sidewalks and street crossings	8,397 40
Sinking fund on city debt	20,800 00
Sinking fund on public park loan	10,825 48

Amount carried forward . . . \$550,225 19

<i>Amount brought forward</i>	.	.	.	.	\$550,225 19
Sinking fund on water bonds	.	.	.	.	17,000 00
Street lights	.	.	.	.	20,154 69
State aid	.	.	.	.	869 00
Temporary loans	.	.	.	.	410,000 00
Use of hydrants	.	.	.	.	8,540 00
Water construction	.	.	.	.	35,367 25
Water maintenance	.	.	.	.	12,826 48
Water meters and service pipes	.	.	.	.	6,263 39
Water rebate	.	.	.	.	196 43
West Newton school house	13,518 31
Balance in the treasury, December 31, 1885	55,218 93
					<hr/>
					\$1,130,179 67
					<hr/>

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Balance in treasury, December 31, 1884	\$45,647 91
Almshouse	2,390 81
Armory rent	400 00
Betterments Farlow Park	.	.	.	.	11,611 95
Betterments Murray Street	.	.	.	.	685 20
Betterments Newtonville drain	.	.	.	.	72 80
Collectors' fees	.	.	.	.	289 77
Corporation tax	.	.	.	.	36,282 05
City Hall	.	.	.	.	727 00
Dog tax	.	.	.	.	1,841 45
Druggists' license fees	.	.	.	.	19 00
Fire department	.	.	.	.	10 00
Foreign ships	.	.	.	.	1,717 94
Funded debt, 4 per cent. water scrip	.	.	.	.	32,000 00
Funded debt, school bonds	.	.	.	.	44,000 00
					<hr/>
<i>Amount carried forward</i>	.	.	.	.	\$177,695 88

<i>Amount brought forward</i>	.	.	.	.	.	\$177,695 88
Highways	.	.	.	.	.	12,536 65
Interest on bank deposit	.	.	.	.	.	819 24
Interest on betterments	.	.	.	.	.	22 97
Interest on city loans	.	.	.	.	.	151 67
Interest on Farlow Park betterments	.	.	.	.	.	29 43
Interest on sidewalk assessments	.	.	.	.	.	5 77
Interest on taxes	.	.	.	.	.	2,092 56
Interest on water scrip	.	.	.	.	.	92 44
Indigent soldiers and sailors	.	.	.	.	.	465 00
Kenrick fund	.	.	.	.	.	189 73
Kenrick fund loan, paid	.	.	.	.	.	1,000 00
Miscellaneous	.	.	.	.	.	22 38
National Bank tax	.	.	.	.	.	11,068 25
Newton Free Library, catalogue account	.	.	.	.	.	15 00
Police department	.	.	.	.	.	702 62
Poor out of almshouse	.	.	.	.	.	1,660 62
Peddlers' licenses	.	.	.	.	.	22 00
Public property	.	.	.	.	.	320 67
Premium on school loan	.	.	.	.	.	1,716 00
Read fund	.	.	.	.	.	814 81
Record and other fees	.	.	.	.	.	500 85
Sinking fund commissioners, city debt	.	.	.	.	.	20,000 00
Sidewalks and curbing	.	.	.	.	.	509 53
Schools	.	.	.	.	.	33 75
School incidentals	.	.	.	.	.	1 50
Street light department	.	.	.	.	.	32 50
State aid	.	.	.	.	.	813 00
Taxes, 1880	.	.	.	.	.	6 90
Taxes, 1882	.	.	.	.	.	120 11
Taxes, 1883	.	.	.	.	.	410 58
<i>Amount carried forward</i>	.	.	.	.	.	<hr/>\$233,872 41

<i>Amount brought forward</i>	.	.	.	.	.	\$233,872 41
Taxes, 1884	.	.	.	.	.	66,729 57
Taxes, 1885	.	.	.	.	.	352,477 13
Temporary loans	.	.	.	.	.	415,000 00
Tuition, non-resident pupils	.	.	.	.	.	278 03
Water construction	.	.	.	.	.	2,504 32
Water maintenance, meters and service pipes	.	.	.	.	.	5,471 52
Water rates	.	.	.	.	.	36,685 59
Water rates by meter	.	.	.	.	.	17,161 10
						<hr/>
						\$1,130,179 67

JOHN A. KENRICK,
Treasurer and Collector.

CITY OF NEWTON, Dec. 31, 1885.

The Joint Committee on Finance beg leave to report, that, in pursuant of Section 13, Ordinance 4, they have examined the books and accounts of the Treasurer and Collector for the financial year ending Dec, 31, 1885, and find them correct in all respects, and all payments properly vouched.

Cash on hand Dec. 31, 1884	.	.	.	.	\$45,647 91
Total cash receipts for the year ending Dec. 31,					
1885	.	.	.	.	1,084,531 76
					<hr/>
					1,130,179 67
Payments for the year	.	.	.	.	1,074,960 74
					<hr/>
Cash on hand at close of business Dec. 31, 1885					\$55,218 93

This balance has been verified by examination of the bank balances to the credit of the city, and cash and cash items in the office.

They further report that there remains due and uncollected the following taxes and assessments:—

Taxes of 1879	\$891 52
Taxes of 1880	899 04
Taxes of 1881	1,228 00
Taxes of 1882	1,628 61
Taxes of 1883	2,088 88
Taxes of 1884	2,583 00
Taxes of 1885	64,366 38
Total	<hr/> \$73,680 43
Sidewalks and Curbing Assessments	137 57
Betterments on Drains, Wards 1 and 2, estimated	900 00
Betterments on Farlow Park	2,735 84
Betterments on Murray Street	495 10
Total	<hr/> \$77,948 94

Respectfully submitted.

J. Q. HENRY,
B. S. GRANT,
SAM'L L. POWERS,
FRANK A. DEARBORN.

**LIABILITIES OF THE CITY OF NEWTON TO DEC. 31, 1885
INCLUSIVE.**

Water loan, 6 per cent	\$600,000 00
Accrued interest on same	18,000 00
Water loan, 5 per cent	250,000 00
Accrued interest on same	6,250 00

Amount carried forward,

\$874,250 00

<i>Amount brought forward,</i>	\$874,250 00	
Water loan, 4 per cent . . .	147,000 00	
Accrued interest on same . . .	1,470 00	
	<hr/>	\$1,022,720 00
Town notes, 6 1-2 per cent . . .	\$46,000 00	
Accrued interest on same . . .	581 59	
	<hr/>	46,581 59
Town notes, 6 per cent . . .	\$167,000 00	
Accrued interest on same . . .	2,481 12	
	<hr/>	169,481 12
Municipal bonds, 5 per cent . . .	\$34,000 00	
Accrued interest on same . . .	850 00	
	<hr/>	34,850 00
Public park bonds, 4 per cent . . .	\$25,000 00	
Accrued interest on same . . .	250 00	
	<hr/>	25,250 00
School house notes, 4 per cent . . .	46,350 00	
Accrued interest on same . . .	803 40	
	<hr/>	47,153 40
Newton school bonds, 4 per cent	\$44,000 00	
Accrued interest on same . . .	440 00	
	<hr/>	44,440 00
Temporary loan	\$75,000 00	
Accrued interest on same . . .	56 25	
	<hr/>	75,056 25
Uninvested portion of principal of Kenrick Fund	\$2,740 00	
Accrued interest on same . . .	49 17	
	<hr/>	2,789 17
Suspense account, amount in treasury subject to call by sundry parties	\$661 68	
	<hr/>	
<i>Amounts carried forward</i>	\$661 68	\$1,468,321 53

<i>Amounts brought forward,</i>	\$661 68	\$1,468,321 53
Mayor's warrants unpaid, appropriations, etc. . . .	\$34,439 72	
Mayor's warrants unpaid, water construction	971 56	
Mayor's warrants unpaid on account of new school house at Auburndale	779 67	
Mayor's warrants unpaid on account of income of the Read Fund	124 05	
Premium on tax sale	12 00	
	<hr/>	36,988 68
		<hr/>
		\$1,505,310 21

DETAILED STATEMENT OF ASSETS.

Balance of taxes, 1879,	\$891 52	
Balance of taxes, 1880,	899 04	
Balance of taxes, 1881,	1,228 00	
Balance of taxes, 1882,	1,628 61	
Balance of taxes, 1883,	2,083 88	
Balance of taxes, 1884,	2,583 00	
Balance of taxes, 1885,	64,366 38	
	<hr/>	\$73,680 43
Due from Commonwealth of Massachusetts as follows:—		
On account of aid to soldiers and sailors under chapters 301 and 252, Acts of 1879 . .	1,400 00	
Balance of corporation tax . .	3,500 00	
Armory rent for 1885	400 00	
	<hr/>	
<i>Amounts carried forward,</i>	\$78,980 43	\$1,505,310 21

<i>Amounts brought forward,</i>	\$78,980 43	\$1,505,310 21
Due from county treasurer:—		
Dog tax for 1885	2,145 60	
Due from miscellaneous sources ; viz.,—		
From sundry persons for bet- terments on drains in Wards 1 and 2, estimated	900 00	
From sundry persons for bet- terments on Farlow Park . .	2,735 84	
From sundry persons for bet- terments on Murray street, Ward 2	495 10	
From sundry persons for side- walk and curbing assess- ments	137 57	
Cash on hand	55,218 93	
	<hr/>	<hr/>
	\$140,613 47	\$1,505,310 21

Sinking Funds.

Water debt sinking fund:—

City of Newton
 water bonds, 5
 per cent . . . \$62,000 00

City of Newton
 water bonds, 4
 per cent . . . 99,000 00

City of Newton
 School house note,
 4 per cent . . . 5,150 00

Cash on deposit on
 interest . . . 2,922 30

\$169,072 30

Amounts carried forward, \$309,685 77 \$1,505,310 21

<i>Amounts brought forward,</i>	\$309,685 77	\$1,505,310 21
City debt sinking fund:—		
City of Newton		
water bonds, 5		
per cent . . .	\$11,000 00	
City of Newton		
water bonds, 4		
per cent . . .	13,000 00	
Cash on deposit on		
interest . . .	516 20	
	<hr/>	\$24,516 20

Public Park Sinking Fund.

City of Newton		
water bonds, 4		
per cent . . .	\$10,000 00	
Cash on deposit on		
interest . . .	862 55	
	<hr/>	\$10,862 55
		<hr/>
		\$345,064 52
		<hr/>
		\$1,160,245 69

RECAPITULATION.

Water Debt.

Water loan	\$997,000 00	
Accrued interest on the same	25,720 00	
Mayor's warrants unpaid for construction	971 56	
	<hr/>	\$1,023,691 56
Sinking fund	169,072 30	
	<hr/>	\$854,619 26
Net water liability,		<hr/>

City Debt, Exclusive of Water Debt.

Town notes	\$213,000 00	
Accrued interest on same	3,062 71	
	<hr/>	\$216,062 71
Municipal bonds.	34,000 00	
Accrued interest on same	850 00	
	<hr/>	\$34,850 00
Public park bonds	25,000 00	
Accrued interest on same	250 00	
	<hr/>	\$25,250 00
Schoolhouse notes	46,350 00	
Accrued interest on same	803 40	
	<hr/>	\$47,153 40
Newton school bonds	44,000 00	
Accrued interest on same	440 00	
	<hr/>	\$44,440 00
Temporary loan	75,000 00	
Accrued interest on same	56 25	
	<hr/>	\$75,056 25
Uninvested portion of principa of Kenrick fund	\$2,740 00	
Accrued interest on same	49 17	
	<hr/>	\$2,789 17
Suspense account, amount in treasury subject to call by sundry parties.	661 68	
Mayor's warrants unpaid, appro- priations, etc.	34,439 72	
Mayor's warrants unpaid on account of new school house Auburndale	779 67	
	<hr/>	
<i>Amounts carried forward,</i>	\$35,881 07	\$445,601 53

<i>Amounts brought forward,</i>	\$35,881 07	\$445,601 53
Mayor's warrants unpaid on account of income of the Read Fund	124 05	
Premium on tax sale	12 00	
	<hr/>	36,017 12
		<hr/>
		\$481,618 65
Cash on hand	\$55,218 93	
Sinking fund	24,516 20	
Public park sinking fund	10,862 55	
Balance taxes uncollected	73,680 43	
Other assets uncollected	11,714 11	
	<hr/>	175,992 22
Net city liability		<hr/>
		\$305,626 43
		<hr/>

RECEIPTS.

The receipts for the year ending Dec. 31, 1885, are shown in the aggregates, as credited in the following accounts:—

Number of account.		
1.	Alms-house	\$2,390 81
2.	Armory	400 00
3.	Betterments	12,369 95
4.	Collector's fees	289 77
5.	Corporation tax	36,282 05
6.	City Hall	727 00
7.	Dog tax	1,841 45
8.	Druggists' license-fees	19 00
9.	Fire department	10 00
10.	Funded debt, water bonds	32,000 00
		<hr/>
	<i>Amount carried forward</i>	\$86,330 03

<i>Amount brought forward</i>	.	.	.	\$86,330 03
11. Funded debt, school loan	.	.	.	44,000 00
12. Highway department	.	.	.	12,536 65
13. Interest on deposits	.	.	.	819 24
14. Interest on betterments	.	.	.	22 97
15. Interest on city loans	.	.	.	151 67
16. Interest on Farlow Park betterments	.	.	.	29 43
17. Interest on sidewalks and curbing as-				
sessments	.	.	.	5 77
18. Interest on taxes	.	.	.	2,092 56
19. Interest on water bonds	.	.	.	92 44
20. Indigent soldiers and sailors	.	.	.	465 00
21. Kenrick fund income, etc.,	.	.	.	1,189 73
22. Miscellaneous	.	.	.	22 38
23. National bank tax	.	.	.	11,068 25
24. Newton free library, catalogue account	.	.	.	15 00
25. Police department	.	.	.	702 62
26. Pedlers' license	.	.	.	22 00
27. Poor out of almshouse	.	.	.	1,660 62
28. Public property	.	.	.	320 67
29. Premium on school loan	.	.	.	1,716 00
30. Read fund income	.	.	.	814 81
31. Record and other fees	.	.	.	500 85
32. Schools, general appropriation for	.	.	.	33 75
33. School incidentals	.	.	.	1 50
34. Ships engaged in foreign trade	.	.	.	1,717 94
35. Sidewalks and curbing	.	.	.	509 53
36. Sinking fund commissioners	.	.	.	20,000 00
37. Street light department	.	.	.	32 50
38. State aid	.	.	.	813 00
39. Taxes, 1880	.	.	.	6 90
<i>Amount carried forward</i>	.	.	.	\$187,693 81

	<i>Amount brought forward</i>					\$187,693 81
40.	Taxes, 1882	.	.	.	.	120 11
41.	Taxes, 1883	.	.	.	.	410 58
42.	Taxes, 1884	.	.	.	.	66,729 57
43.	Taxes, 1885	.	.	.	.	352,477 13
44.	Temporary loans	.	.	.	.	415,000 00
45.	Tuition for non-resident pupils	.	.	.	.	278 03
46.	Water construction	.	.	.	.	2,504 32
47.	Water meters and service-pipe	.	.	.	.	5,471 52
48.	Water-rates, by schedule	.	.	.	.	36,685 59
49.	Water-rates, by meters	.	.	.	.	17,161 10
	Total Receipts	.	.	.	.	<u>\$1,084,531 76</u>

EXPENSES.

The claims for the year ending Dec. 31, 1885, as approved and drawn for in the auditor's office, are shown in the aggregates, as charged to the following accounts:—

Number of account,			
1.	Almshouse, expenses and repairs	.	\$4,544 41
2.	Abatement of betterments — Farlow		
	Park	.	56 00
3.	Armory rent and expenses	.	821 80
4.	Armory Hall (Claflin Guard Armory)	.	5,397 08
5.	Auburndale (Williams) schoolhouse	.	562 45
6.	Books, stationery and printing	.	2,149 92
7.	Board of Health	.	2,280 69
8.	Burial grounds	.	250 00
9.	Conveyance of pupils	.	900 00
10.	Curbing	.	1,500 00
	<i>Amount carried forward</i>	.	<u>\$18,462 35</u>

	<i>Amount brought forward</i>	\$18,462 35
11.	City Hall expenses	1,707 27
12.	City Engineer's department	6,749 99
13.	Drains and culverts	7,450 00
14.	Evening schools	717 54
15.	Fire department	24,601 87
16.	Funded debt	20,000 00
17.	Funded debt, schoolhouse note	5,150 00
18.	Gravel land	3,296 58
19.	Highways, general repairs	70,185 53
20.	Highways, widening, reconstruction, and improvements	17,000 00
21.	Improvement on public squares	9,860 85
22.	Interest on city loans, temporary and permanent	25,138 00
23.	Interest on water bonds	53,100 00
24.	Indigent soldiers and sailors	917 00
25.	Kenrick fund income	165 20
26.	Land damages	2,129 46
27.	Memorial Day	400 00
28.	Miscellaneous expenses	16,374 89
29.	Newton Free Library	7,499 98
30.	Newton Centre (Rice) schoolhouse	9,019 63
31.	Nonantum (Eliot) schoolhouse	945 16
32.	Police department	19,498 17
33.	Poor out of almshouse	8,500 15
34.	Public property	11,315 23
35.	Removal of ashes	3,500 00
36.	Read Fund income	1,594 27
37.	Salaries	14,479 80
38.	Schools, general appropriation for	92,556 51
	<i>Amount carried forward</i>	\$452,315 43

	<i>Amount brought forward</i>				\$452,315 43
39.	School incidentals	.	.	.	13,811 02
40.	Sidewalks and street crossings	.	.	.	9,000 00
41.	Sinking fund on city debt	.	.	.	20,800 00
42.	Sinking fund on public park loan	.	.	.	10,825 48
43.	Sinking fund on water bonds	.	.	.	17,000 00
44.	State aid	.	.	.	904 00
45.	Street light department	.	.	.	20,504 06
46.	Taxes, 1885, state	.	.	.	24,135 00
47.	Taxes, 1885, county	.	.	.	18,302 55
48.	Taxes, 1885, national bank	.	.	.	954 47
49.	Taxes, 1885, corporation	.	.	.	16 02
50.	Temporary loans	.	.	.	410,000 00
51.	Use of hydrants	.	.	.	8,540 00
52.	Water maintenance	.	.	.	12,873 49
53.	Water-meters and service pipe	.	.	.	6,471 25
54.	Water construction	.	.	.	35,235 31
55.	Water rebate	.	.	.	196 43
56.	West Newton, (Shaw street) school-				
	house	.	.	.	13,518 31
	Total expenses	.	.	.	<u>\$1,075,402 82</u>

TABLE SHOWING APPROPRIATIONS, TRANSFERS, MAYOR'S WARRANTS, TREASURER'S PAYMENTS, DIFFERENCES, EXCESS AND DEFICIENCY ACCOUNT.

OBJECT OF APPROPRIATION.	APPROPRIATIONS FOR 1885.	TRANSFERS.	TOTAL APPROPRIATIONS.	MAYOR'S WARRANTS.	TREASURER'S PAYMENTS.	DIFFERENCES.	EXCESS AND DEFICIENCY ACCOUNT. Overdrawn. Unexpended.
Almshouse expenses and repairs \$3,750.00 Transferred from treasury amount received from B. & A. Railroad 500.00	\$4,250 00	—	\$4,250 00	\$4,544 41	\$4,882 10	\$337 69	\$ 294 41
Army rent and expenses	800 00	—	800 00	821 80	884 77	62 97	21 80
Books, Stationery, and Printing	2,150 00	—	2,150 00	2,149 92	1,826 60	— 323 32	— 08
Board of Health	2,300 00	—	2,300 00	2,280 69	2,319 50	38 81	19 31
Burial Grounds	250 00	—	250 00	250 00	250 00	—	—
Conveyance of pupils	650 00	\$250 00	900 00	900 00	900 00	—	—
Curbing	1,500 00	—	1,500 00	1,500 00	1,549 14	49 14	—
City Hall expenses	1,600 00	—	1,600 00	1,707 27	1,350 29	— 356 98	107 27
City Engineers' Department	6,750 00	—	6,750 00	6,749 99	6,826 57	76 58	— 01
Drains and Culverts	12,000 00	4,550 00	7,450 00	7,450 00	8,663 26	1,213 26	—
Evening Schools	550 00	167 54	717 54	717 54	717 54	—	—
Fire Department	22,900 00	—	22,900 00	24,601 87	23,946 25	— 655 62	1,701 87
General approp'n for schools \$95,650.00 Dog tax, 1884, by order of City Council 1,841.45	97,491 45	4,728 56	92,762 89	92,556 51	92,138 76	— 417 75	206 38
Gravel Land	3,000 00	300 00	3,300 00	3,296 58	3,322 33	25 75	— 3 42
Highways, General Repairs . . . \$50,000.00 Additional by order of City Council 17,261.93	67,261 93	3,000 00	70,261 93	70,185 53	68,371 77	— 1,813 76	76 40
Highways, Widening, Reconstruction, and Improvements \$15,000.00 Additional by order of City Council 2,000.00	17,000 00	—	17,000 00	17,000 00	17,813 78	813 78	—

TABLE SHOWING APPROPRIATIONS, ETC., Concluded.

OBJECT OF APPROPRIATIONS.	APPROPRIATIONS FOR 1885.	TRANSFERS.	TOTAL APPROPRIATIONS.	MAYOR'S WARRANTS.	TREASURER'S PAYMENTS.	DIFFERENCES.	EXCESS AND DEFICIENCY ACCOUNT.	
							Overdrawn.	Unexpen'd.
Improvement on Public Squares \$6000.00 } Additional by order of City } Council 5,000.00 }	11,000 00	—	11,000 00	9,860 85	9,036 80	— 764 05	—	1,129 15
Interest on City Loans, temporary and permanent }	25,200 00	—	25,200 00	25,138 00	25,141 03	3 03	—	62 00
Interest on Water Bonds }	53,100 00	—	53,100 00	53,100 00	53,100 00	—	—	—
Indigent Soldiers and Sailors }	1,000 00	—	1,000 00	917 00	900 00	— 17 00	—	83 00
Land Damages }	1,600 00	550 00	2,150 00	2,129 46	2,536 96	407 50	—	20 54
Memorial Day }	400 00	—	400 00	400 00	400 00	—	—	—
Miscellaneous expenses . . \$10,000.00 } Additional by order of City } Council 5,000.00 }	15,000 00	300 00	14,700 00	16,374 89	15,644 48	— 730 41	1,674 89	—
Newton Free Library }	7,500 00	—	7,500 00	7,499 98	7,063 62	— 436 36	—	02
Police Department }	19,500 00	—	19,500 00	19,498 17	19,725 30	227 13	—	1 83
Poor out of Almshouse }	8,000 00	—	8,000 00	8,500 15	8,182 68	— 317 47	500 15	—
Public Property \$10,000.00 } Additional by order of City } Council 760.00 }	10,760 00	—	10,760 00	11,315 23	11,037 77	— 277 46	555 23	—
Removal of Ashes }	3,500 00	—	3,500 00	3,500 00	3,502 13	2 13	—	—
Salaries }	14,400 00	—	14,400 00	14,479 80	14,386 62	— 93 18	79 80	—
School Incidentals }	9,500 00	4,311 02	13,811 02	13,811 02	13,018 80	— 792 22	—	—
School house note }	5,150 00	—	5,150 00	5,150 00	5,150 00	—	—	—
Sidewalks and Street Crossings \$6,500.00 } Additional by order of City } Council 1,500.00 }	8,000 00	1,000 00	9,000 00	9,000 00	8,397 40	— 602 60	—	—
Sinking Fund on City Debt }	10,000 00	—	10,000 00	10,000 00	20,800 00	10,800 00	—	—
Sinking Fund on Water Bonds }	17,000 00	—	17,000 00	17,000 00	17,000 00	—	—	—

Street Light Department	20,750 00	—	20,750 00	20,504 06	20,154 69	— 349 37	—	245 94
State Aid	1,000 00	—	1,000 00	904 00	869 00	— 35 00	—	96 00
Use of Hydrants	8,540 00	—	8,540 00	8,540 00	8,540 00		—	
Water Maintenance	13,000 00	—	13,000 00	12,873 49	12,826 48	— 47 01	—	126 51
Water Meters and Service Pipe, \$5,000.00 } Additional by order of City } Council 1,700.00 }	6,700 00	—	6,700 00	6,471 25	6,263 39	— 207 86	—	228 75
Special Appropriation by order of City Council on account of Water Rebate .	500 00	—	500 00	196 43	196 43	—	—	303 57
Less Mayor's Warrants of 1884, paid by Treasurer in 1885	—	—	—	—	\$519,696 24	\$14,057 77	—	—
Amount of Mayor's Warrants for 1885 paid by Treasurer in 1886	—	—	—	—	40,260 07	8,237 42	—	—
Special Appropriation by order of City Council	2,322 51	—	2,322 51	—	\$479,436 17 34,439 72		—	2,322 51
	\$513,875 89	—	\$513,875 89	\$513,875 89	\$513,875 89	\$5,820 35	\$4,935 42	\$4,935 42

PERMANENT DEBT—DESCRIPTIVE LIST.

	RATE.	DATE OF LOAN, ETC.	PAYABLE.	AMOUNT.	INTEREST, WHEN PAYABLE.
City Institution for Savings, Lowell	6 per cent	Oct. 3, 1867	Oct. 3, 1886	\$20,000 00	April and October
" " " "	6 per cent	Oct. 3, 1867	Oct. 3, 1887	20,000 00	April and October
Commonwealth of Massachusetts	6 per cent	April 1, 1868	April 1, 1888	30,000 00	April and October
" " " "	6½ per cent	April 21, 1871	April 21, 1888	46,000 00	April and October
" " " "	6 per cent	April 22, 1870	April 22, 1889	20,000 00	April and October
" " " "	6 per cent	April 22, 1870	April 22, 1892	30,000 00	April and October
" " " "	6 per cent	March 10, 1875	March 10, 1894	47,000 00	March and September
Municipal Bonds, \$1,000 each.	5 per cent	July 1, 1875	July 1, 1895	34,000 00	January and July
Water Bonds, \$1,000 each.	6 per cent	July 1, 1875	July 1, 1905	600,000 00	January and July
" " " "	5 per cent	July 1, 1875	July 1, 1906	250,000 00	January and July
" " " "	4 per cent	Oct. 1, 1880	Oct. 1, 1910	147,000 00	April and October
Public Park Bonds, \$1,000 each.	4 per cent	June 1, 1883	April 1, 1908	25,000 00	April and October
Schoolhouse Notes, \$5,150 each.	4 per cent	Jan. 25, 1884	One each year	46,350 00	January and July
School Loan Bonds, \$1,000 each.	4 per cent	April 1, 1885	April 1, 1895	44,000 00	April and October
				\$1,359,350 00	

STATEMENT OF THE KENRICK FUND.

The following is a statement of this fund and its income,
Jan. 1, 1886:—

Amount invested	\$1,260 00
Cash uninvested	2,740 00
	<hr/>
Total fund	\$4,000 00
Balance income on hand Jan. 1, 1885,	\$25 00
Income received in 1885	189 73
	<hr/>
	\$214 73
Amount distributed	165 20
	<hr/>
Balance	\$49 53

The distribution of the income of this fund has been made, in accordance with the terms of the donor, to persons entitled to its benefits.

TAXES AND TAXABLE VALUATION.

The following will show the valuation of the property of the city on which taxes were assessed for the year 1885, with the amount of taxes and rate of taxation:—

Value of real estate	\$21,134,820 00
Value of personal estate	7,865,000 00
	<hr/>
	\$28,999,820 00
Tax received for corporation stocks	36,282 05
Tax received for bank stocks	11,068 25
	<hr/>
	\$47,350 30
City appropriations for current expenses	475,490 00
Deduct estimated receipts for 1885	108,250 00
	<hr/>
<i>Amount carried forward</i>	<i>\$367,240 00</i>

<i>Amount brought forward</i>	\$367,240 00
State tax	24,135 00
County tax	18,302 55
Overlay and supplementary assessments	6,283 93
Total assessments	<u>\$415,961 48</u>
Rate of taxation \$14.00 on \$1000.	

LEDGER BALANCES.

DR.

Betterments Farlow Park	2,735 84
Betterments Murray Street	495 10
Betterments Newtonville drain	1,956 50
Bills Receivable	250 00
Bills Receivable Kerrick fund	1,260 00
Cash	55,218 93
Overlay 1883	2,127 04
Public Property owned by the City	880,852 60
Real Estate bought for non-payt. Taxes	622 06
Sidewalks and curbing assessments	12 75
Taxes 1879	891 52
Taxes 1880	899 04
Taxes 1881	1,228 00
Taxes 1882	1,628 61
Taxes 1883	2,083 88
Taxes 1884	2,583 00
Taxes 1885	64,366 38
Water Construction	998,344 16
	<u>2,017,555 41</u>

CR.

Auburndale School House	779 67
City of Newton	530,616 40
Funded debt 5 per cent. city bonds	34,000 00
Funded debt 6 per cent. city notes	167,000 00
Funded debt 6 1-2 per cent. city notes	46,000 00
Funded debt 4 per cent. public park loan	25,000 00
Funded debt 4 per cent. school bonds	44,000 00
Funded debt 4 per cent. school notes	46,350 00
Funded debt 6 per cent. water scrip	600,000 00
Funded debt 5 per cent water scrip	250,000 00
Funded debt 4 per cent. water scrip	147,000 00
Interest on Farlow park betterment	29 43
Kenrick Fund	4,049 53
Mayor's warrants, unpaid bills	34,439 72
Overlay 1879	2,339 61
Overlay 1880	3,801 44
Overlay 1881	1,053 74
Overlay 1882	673 94
Overlay 1884	743 12
Overlay 1885	3,881 08
Premium on tax sale	12 00
Read Fund	124 05
Suspense account	661 68
Temporary loans	75,000 00
	<hr/>
	\$2,017,555 41

REPORT OF THE SINKING FUND COMMISSIONERS.

NEWTON, Jan. 1, 1886.

In accordance with the requirements of the City Charter and Ordinances, the Sinking Fund Commissioners herewith report the condition of the funds and securities in their charge on the 31st day of December, 1885 :

City Debt Sinking Fund.

On hand in cash and securities at par, Jan. 1,	
1885	\$23,092 01
Received interest on bonds and deposits . . .	1,230 44
Received appropriation by the city for 1885 . .	20,800 00
	<hr/>
	\$45,122 45

Less.

Bought \$3000 City of Newton 5	
per cent. bonds at 120 and ac-	
crued interest; premium and	
accrued interest,	606 25
Paid City Treasurer to pay note due	
October 3, 1885 -	20,000 00— 20,606 25
	<hr/>
	\$24,516 20

Invested as follows:—

City of Newton 5 per cent. water bonds, due	
July 1, 1906, at par	\$11,000 00
City of Newton 4 per cent. water bonds, due	
Oct. 1, 1910, at par	13,000 00
Cash on deposit in bank	516 20
	<hr/>
	\$24,516 20

Water Debt Sinking Fund.

On hand in cash and securities at par Jan. 1,	
1885	\$145,779 67
Received balance of interest on bonds and de-	
posits	6,292 63
Received appropriation by the city for 1885 .	17,000 00
	<hr/>
	\$169,072 30

Invested as follows:—

City of Newton 5 per cent. water bonds, due	
July 1, 1906	62,000 00
City of Newton 4 per cent. water bonds, due	
Oct. 1, 1910	62,000 00
City of Newton 4 per cent. water bonds, due	
April 1, 1914	37,000 00
City of Newton 4 per cent. school note, due	
Jan. 25, 1894	5,150 00
Cash on deposit in bank	2,922 30
	<hr/>
	\$169,072 30

Public Park Sinking Fund.

Received betterments, collected by City of	
Newton and paid to the Commissioners .	\$10,825 48
Balance of interest received on deposits .	37 07
	<hr/>
	\$10,862 55

Invested as follows:—

City of Newton 4 per cent. water bonds, due	
April 1, 1914	\$10,000 00
Cash on deposit in bank	862 55
	<hr/>
	\$10,862 55

During the year we have bought for the city debt sinking fund \$3,000 5 per cent water bonds at 120 and accrued interest. For the water debt sinking fund we have bought of the city \$22,000 4 per cent. water bonds, due April 1, 1914, and for the public park sinking fund \$10,000 4 per cent water bonds, same time to run. We have paid to the City Treasurer \$20,000 from the city debt sinking funds to enable him to retire a note which fell due October 3, 1885. We also reported in September last that there should be appropriated for the year 1886, as follows:—

For the city debt sinking fund	. . . . .	\$21,500
For the school loan sinking fund	. . . . .	4,500
For the water debt sinking fund	. . . . .	18,000

Respectfully submitted,

GEO. S. BULLENS,

ALDEN SPEARE,

GEORGE C. LORD,

Commissioners of the Sinking Fund.

REPORT OF THE TRUSTEES OF THE READ FUND.

NEWTON, Jan. 1, 1886.

In accordance with Ordinance XXVIII., Section 3, we have the honor to report to the City Council, as follows:—
Note of Boston and Maine Railroad, due and paid \$39,700
Interest collected on same, 12 months, 4 per cent.

per annum	. . . . .	1,588
		<u>\$41,288</u>

Less.

Paid income to City Treasurer	. . . . .	\$1,588
		<u>\$39,700</u>

Invested as follows :—

Note of Connecticut and Passumpsic Rivers Railroad, guaranteed by Emmons Raymond and W. K. Blodget, dated January 1. 1886, 12 months, 4 per cent. per annum and payable semi-annually \$39,700

GEO. S. BULLENS

ALDEN PEARE

GEORGE C. LORD,

Trustees of the Read Fund.

STATEMENT IN DETAIL OF RECEIPTS.

Alms-house.

Received from N. D. Moody, war-	
den, for sale of hay, straw,	
produce, wood, etc.	\$1,783 81
Received for support of Maggie	
Jackson	69 00
Received for support of Mrs.	
Thomas	38 00
Received from Boston and Al-	
bany Railroad corporation for	
building bridge over tracks of	
Circuit Railroad	500 00
Total, as per item No. 1 of	
receipts	\$2,390 81

Armory.

Received from Commonwealth of	
Massachusetts for rent of ar-	
mory, as per item No. 2 of	
receipts	\$400 00

Betterments.

Received from sundry persons on account Farlow Park .	\$11,611 95
Received from sundry persons on account Murray Street .	685 20
Received from sundry persons on account Newtonville drain .	72 80
<hr/>	
Total, as per item No. 3 of receipts	\$12,369 95

Collector's Fees.

Received from John A. Kenrick, treasurer and collector of taxes, for summonses, adver- tising tax sales, etc., as per item No. 4 of receipts . . .	\$289 77
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Corporation Tax.

Received from Commonwealth of Massachusetts, as per item No. 5 of receipts	\$36,282 05
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City Hall.

Received for use of hall, etc. .	\$227 00
Received from Amos Stone, treas- urer of County of Middlesex, for rent of police court room,	500 00
<hr/>	
Total, as per item No. 6 of receipts	\$727 00

Dog Tax.

Received from Amos Stone, treas- urer of County of Middlesex, for dog tax, as per item No. 7 of receipts	\$1,841 45
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Druggists' License Fees.

Received from sundry persons for
 liquor licenses of the sixth
 class, as per item No. 8 of re-
 ceipts \$19 00

Fire Department.

Received from H. L. Bixby, chief
 of department, for sale of
 condemned axle and wheels,
 as per item No. 9 of receipts \$10 00

Funded Debt—Water Bonds.

Received from the commissioners
 of sinking funds of City of
 Newton for thirty-two water
 bonds, 4 per cent., \$1,000
 each, as per item No. 10 of
 receipts \$32,000 00

Funded Debt—School Loan.

Received from Brewster, Cobb &
 Estabrook for forty-four
 school loan bonds, 4 per cent.,
 \$1,000 each, as per item No.
 11 of receipts \$44,000 00

Highway—General Repairs.

Received from Boston and Albany
 Railroad Corporation, for
 material and labor in repair-
 ing approaches to the bridges
 over the tracks of the Circuit
 Railroad, as follows :—

Elliot street	\$3,019 36
Washington street	2,435 80
Beacon street	2,403 12
Boylston street	1,358 65
Received from Boston and Albany Railroad Corporation, for curbing	3 65
Received from sundry persons portion of expense for recon- struction and extension of Bowditch street from New- tonville avenue to Washing- ton street	2,925 00
Received from Almshouse De- partment for manure . . .	276 00
Received from T. F. Mague, horse	45 00
Received from S. D. Garey, for grates and brick	22 73
Received from N. and W. Gas Light Co., paving and gravel	16 95
Received from Town of Brookline one half expense of determin- ing boundary line, etc. .	10 56
Received from Patrick J. Connel- ley, pasturage	10 00
Received from Daniel Warren, old plank	5 00
Received from James Murphy, old iron, from city stable Ward 7	4 83
<hr/>	
Total as per item No. 12 of receipts	\$12,536 65

Interest on Deposits.

Received from Newton National Bank, on daily balances, as per item No. 13 of receipts .	\$819 24
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Interest on Betterments.

Received from sundry parties on account of betterments, as per item No. 14 of receipts	\$22 97
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Interest on City Loans.

Received from Brewster, Cobb & Esta- brook accrued interest on forty-four school loan bonds, \$1,000 each .	\$146 67
Received from Blake Bros. & Co., inter- est on loan	\$5 00
Total, as per item No. 15 of receipts	\$151 67

Interest on Farlow Park Betterments.

Received from sundry persons interest on betterments, as per item No. 16 of receipts .	\$29 43
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Interest on Sidewalks and Curbing Assessments.

Received from sundry persons interest as per item No. 17 of receipts	\$5 77
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Interest on Taxes.

Received from sundry persons, interest on taxes, as per item No. 18 of receipts	\$2,092 56
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Interest on Water Bonds.

Received from commissioners of the sinking funds of City of Newton, accrued interest on \$32,000, 4 per cent. water bonds, as per item No. 19 of receipts	\$92 44
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Indigent Soldiers and Sailors.

Received from Commonwealth of Massachusetts, on account of aid to sundry persons, under Chap. 252, Acts of 1879, as per item No. 20 of receipts	\$465 00
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Kenrick Fund Income, etc.

Balance uninvested January 1, 1885, in city treasury	\$1,740 00
Received from Henry Ross, principal	500 00
Received from W. B. Locke, principal	500 00
Balance of income on hand Jan. 1, 1885	25 00
	<hr/>
	\$2,765 00
Income from investments in 1885 as per item No. 21 of receipts	189 73
	<hr/>
	\$2,954 73

Expended.

Distributed per order Board of Aldermen, as per item No. 25 of expenses	\$165 20
Balance income on hand	49 53
	<hr/>
	214 73
	<hr/>
Balance uninvested Jan. 1, 1886	\$2,740 00

Miscellaneous.

Received from E. C. Soule, Chair-
man, refund of amount not ex-
pended in placing Fire Alarm
Box, etc., corner Watertown and
Parsons streets, as per item No.
22 of receipts \$22 38

National Bank Tax.

Received from Commonwealth of
Massachusetts National Bank Tax,
as per item No. 23 of receipts . . . \$11,068 25

Newton Free Library.—Catalogue Account.

Received from H. P. James, Libra-
rian, for sale of catalogues, as
per item No. 24 of receipts . . . \$15 00

Police Department.

Received from Edward W. Cate, Clerk
of Police Court, fees, fees for
witnesses, fines and costs, as per
item No. 25 of receipts . . . \$702 62

Pedlars' Licenses .

Received from Angiolo Mobilia, as
per item No. 26 of receipts . . . \$22 00

Poor Out of Almshouse.

Received from Commonwealth of
Massachusetts for partial support,
etc., of sundry persons . . . \$499 02

Received from estate of Mary Far-
rell, for support of Mary Farrell 517 49

Amount carried forward, \$1,016 51

<i>Amount brought forward,</i>	\$1,016 51
Received from City of Boston, for partial support of sundry persons	153 62
Received from City of Waltham, for partial support of sundry persons	210 33
Received from City of Lowell, for partial support of sundry persons	9 88
Received from City of Cambridge, for partial support of sundry persons	6 13
Received from Town of Blackstone, for partial support of sundry persons	24 00
Received from Town of Concord, for partial support of sundry persons	17 57
Received from Town of Foxboro, for partial support of sundry persons	13 95
Received from Town of Pittsfield, for partial support of sundry persons	6 90
Received from Town of Merrimac, for partial support of sundry persons	4 00
Received from Town of Needham, for partial support of sundry persons	3 50
<i>Amount carried forward .</i>	<hr/> \$1,466 39

<i>Amount brought forward</i>	\$1,466 39	
Received from Town of Sunderland, for partial support of sundry persons	3 20	
Received from Town of Natick, for partial support of sundry persons	1 50	
Received for partial support of J. C. Gipson	189 53	
<hr/>		
Total as per item No. 27 of receipts.		\$1,660 62

Public Property.

Received for rent of Prospect Schoolhouse Hall	\$124 00	
Received for rent of Mason School- house Hall	37 00	
Received for rent of Hyde School- house Hall	8 00	
Received for rent of Oak Hill Schoolhouse Hall	8 00	
Received from Captain I. H. Houghton, rent of Armory Hall	58 67	
Received for rent of house, Au- burndale Avenue	48 00	
Received from E. M. Fowle, Treas., for use of Crystal Pond	25 00	
Received from John Ryan, old hearse house, West Newton	7 00	
Received from Henry F. Ross, for old ventilator	5 00	
<hr/>		
Total, as per item No. 28 of receipts		\$320 67

Premium on School Loan.

Received from Brewster, Cobb, and Estabrook, 3 90-100 per cent. premium on forty-four school loan bonds, \$1,000 each as per item No. 29 of receipts	\$1,716 00
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Read Fund Income.

Received from the Trustees of the Read Fund, interest on in- vestments	\$794 00
Received from John Q. Henry, chairman, balance unexpended on account of lectures	14 70
Received from John Q. Henry, chairman, balance unexpended on account of picnic .	6 11
Total as per item No. 30 of receipts	\$814 81

Record and Other Fees.

Received from City Clerk, for re- cording mortgages, marriage certificates, assignments, etc., as per item No. 31 of receipts	\$500 85
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Schools, General Appropriation for.

Received from Miss L. M. Newhall, teacher, amount approved by school board in error as per item No. 32 of receipts	\$33 75
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School Incidentals.

Received from B. F. Doherty re-	
fund of bill for expressage,	
as per item No. 33 of receipts	\$1 50

Ships Engaged in Foreign Trade.

Received from Commonwealth of	
Massachusetts, on account of	
ships engaged in foreign trade	
as per item No. 34 of receipts	\$1,717 94

Sidewalks and Curbing.

Received from sundry parties, on	
account of sidewalks and	
curbing, as per item No. 35	
of receipts	\$509 53

Sinking Fund Commissioners.

Received from the commissioners	
of the sinking funds of the	
City of Newton, for the pay-	
ment of a note of the town of	
Newton, as per item No. 36	
of receipts	\$20,000 00

Street Light Department.

Received from W. Henry Brackett	
for iron lamp post, lantern,	
etc., broken by team	16 25
Received from sundry parties, for	
iron lamp post, lantern, etc.,	
broken by team	16 25
Total as per item No. 37 of receipts	\$32 50

State Aid.

Received from Commonwealth of
 Massachusetts, on account of
 sundry persons, under chapter
 301, Acts of 1879, as per item No.
 38 of receipts \$813 00

Taxes 1879.

Balance uncollected Dec. 31, 1885 . . . \$891 52

Taxes 1880.

Balance uncollected Dec. 31, 1884 . \$905 94
 Received from sundry persons, since
 Dec. 31, 1884, as per item No. 39
 of receipts 6 90

 Balance uncollected Dec. 31, 1885 . . . \$899 04

Taxes 1881.

Balance uncollected Dec. 31, 1885 . . . \$1,228 00

Taxes 1882.

Balance uncollected Dec. 31, 1884 . \$1,748 72
 Received from sundry persons, since
 Dec. 31, 1884, as per item No. 40
 of receipts 120 11

 Balance uncollected Dec. 31, 1885 . . . \$1,628 61

Taxes 1883.

Balance uncollected Dec. 31, 1884 . \$2,494 46
 Received from sundry persons since
 Dec. 31, 1884, as per item No. 41
 of receipts 410 58

 Balance uncollected Dec. 31, 1885 . . . \$2,083 88

Taxes 1884.

Balance uncollected Dec. 31, 1884	. \$69,312 57
Received from sundry persons, since Dec. 31, 1884, as per item No. 42 of receipts	. . . . 66,729 57
Balance uncollected Dec. 31, 1885	. . . \$2,583 00

Taxes 1885.

Amount assessed for State tax	. . . \$24,135 00
Amount assessed for Coun- ty tax	. . . 18,302 55
Amount assessed for City tax	. . . 367,240 00
Supplementary assess- ments	. . . 30 00
Tax on non-resident bank shares	. . . 848 03
Overlay	. . . 6,287 93
	<u>\$416,843 51</u>
Received from sundry persons to Dec. 31, 1885, as per item No. 43 of re- ceipts	. . . . 352,477 13
Balance uncollected Dec. 31, 1885	. . . \$64,336 38

Temporary Loans.

Borrowed during the year, by authority of the City Council (in anticipation of taxes), for the payment of current expenses:

Jan. 6. Richardson, Hill & Co., at 3 3-4 per cent. per annum	. . . \$35,000 00
<i>Amount carried forward</i>	. \$35,000 00

<i>Amount brought forward</i>	.	\$35,000	00
Feb. 21. Blake Bros. & Co., at			
3 5-8 per cent. per an-			
num		40,000	00
May 26. Brewster, Cobb & Esta-			
brook, at 2 7-10 per			
cent. per annum .		100,000	00
June 30. New England Trust Co.,			
2 1-2 per cent. per an-			
num		100,000	00
July 14. Potter-Lovell Co., at 2			
per cent. per annum .		50,000	00
Nov. 21. Potter-Lovell Co., at 2 7-8			
per cent. per annum .		15,000	00
Dec. 22. Boston Five-Cent Sav-			
ings Bank, at 3 per			
cent. per item . .		75,000	00
<hr/>			
Total, as per item No. 44 of			
receipts		\$415,000	00

Tuition for Non-Resident Pupils.

Received from sundry non-resi-			
dents for tuition, as per item			
No. 45 of receipts		\$278	03

Water Meters and Service Pipe.

Received from sundry persons for			
meters, service pipe, etc., as			
per item No. 47 of receipts		\$5,471	52

Water Rates.

Received from sundry persons for use of water in 1885, by schedule rates, as per item No. 48 of receipts	\$36,685 59
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Water Rates by Meters.

Received from sundry persons for use of water in 1885, by meters, as per item No. 49 of receipts	\$17,161 10
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STATEMENT IN DETAIL OF EXPENSES, WITH APPROPRIATIONS, TRANSFERS, AND BALANCES.

Alms-house Expenses and Repairs.

Appropriation	\$3,750 00	
Additional from City Treasury received from Boston and Albany Railroad Corporation for construction of bridge over tracks of Circuit Railroad	500 00	
		\$4,250 00
N. D. Moody, service as warden	600 00	
N. D. Moody, sundry cash pay- ments	246 51	
Nathaniel Bright, services at alms- house	54 00	
<i>Amounts carried forward,</i>	\$900 51	\$4,500 04

<i>Amounts brought forward</i> .	\$900 51	\$4,500 00
Charles E. Sanborn, services at almshouse	45 00	
Joseph Laird, services at almshouse	88 20	
John T. Moody, services at alms- house	13 00	
Mary Laird, services at almshouse	60 00	
Katy McNeil, services at alms- house	99 87	
Nellie McLeod, services at alms- house	36 80	
Emma A. Bright, services at alms- house	36 00	
Mrs. C. E. Sanborn, services at almshouse	30 00	
Dr. James Utley, medical attend- ance	45 00	
Dr. D. E. Baker, medical attend- ance	20 00	
Dr. C. F. Haynes, medical attend- ance	2 00	
Dr. F. E. Crockett, medical attend- ance	1 00	
L. A. Ross, construction of bridge	474 66	
Highway department for manure	276 00	
Water department, use of water	40 00	
C. F. Eddy & Co., for coal . . .	274 19	
Crocker & Eldredge, groceries	346 57	
H. A. Sherman, groceries . . .	104 29	
Hall & Lowe, provisions . . .	254 27	
G. F. Swift & Co., provisions . .	51 74	
<i>Amounts carried forward,</i> .	<hr/> \$3,199 10	<hr/> \$4,500 00

<i>Amonts brought forward,</i> .	\$3,199 10	\$4,500 00
C. F. Rand, premium insurance on buildings	191 25	
E. Smead & Co., grain	71 79	
F. Linnell, fish and oysters . . .	64 02	
George H. Ellis, ice	28 60	
A. James, crackers	27 94	
J. F. C. Hyde, wood at auction	140 25	
Dexter Kingsbury, wood at auction	92 25	
Thomas Fortune, wood at auction	50 50	
W. H. Mague, house-offal	80 00	
C. A. Cole, blacksmithing, etc.	72 69	
Francis Buttrick, lumber	50 31	
M. E. Church, rent of pew	30 00	
B. A. Atkinson & Co., secretary	37 00	
W. B. Whittier, pigs	28 00	
Tucker Man'f. Co., iron bedsteads	12 70	
E. C. Holmes & Co., seeds, etc.	11 63	
E. W. Hodgson, blankets, etc.	9 20	
C. H. Thompson & Co., grindstone	8 00	
Newton Cemetery, interment . .	5 00	
Daniels' Nonantum stable, use of teams	4 00	
M. Frank Lucas, material and labor	7 88	
J. Pulcifer, material and labor	8 70	
H. H. Hunt, material and labor	3 84	
Milo Lucas, material and labor	2 41	
Everett E. Moody, supplies. . . .	204 05	
F. W. Freeman, supplies	43 18	
O. F. Lucas, supplies	28 50	
<i>Amount carried forward,</i> .	\$4,512 79	\$4,500 00

<i>Amounts brought forward</i> .	678 85	\$800 00
C. S. Pulsifer, rent of land for rifle range	50 00	
Timothy Stuart, labor, men and teams	33 65	
B. S. Wetherbee, extra services, armories	5 00	
Edward Pike, material and labor	24 58	
J. S. Sumner, material and labor	6 22	
Transcript Publishing Co., print- ing notices	3 50	
<hr/>		
Total, as per item No. 3 of expenses		\$821 80
Balance, overdrawn, trans- ferred into Treasury		\$21 80

Armory Hall—Claflin Guard Armory.

Expended to Dec. 31, 1884 .		\$5,984 96
Higgins & Nickerson—amount paid on contract for altera- tions	\$3,798 47	
Walworth Manufacturing Com- pany—amount paid on con- tract for steam-heating appa- ratus	596 00	
H. J. Preston, services as archi- tect	175 00	
Christopher Needham — amount paid on contract for painting, etc.	139 28	
<hr/>		
<i>Amounts carried forward,</i> .	\$4,708 75	\$5,984 96

<i>Amounts brought forward,</i>	\$4,708 75	\$5,984 96
Harwood Manufacturing Company, settees, etc.	468 00	
Howland & Churchill, gas fixtures	75 00	
Albert Brackett, coal and wood	41 43	
B. S. Wetherbee, care of heating apparatus	25 00	
Edward Pike, material and labor	24 80	
John Hackett, material and labor	14 00	
M. C. Higgins, material and labor	11 75	
John S. Sumner, material and labor	11 25	
Murray & Farrell, material and labor	10 00	
Joseph Garvin, material and labor	5 00	
C. W. Morehouse, supplies	2 10	
Total, as per item No. 4 of expenses		\$5,397 08
Total expenditure to Dec. 31, 1885		\$11,382 04

Auburndale (Williams) Schoolhouse.

Total expenditure to Dec. 31, 1884		\$34,935 36
J. A. Swasey, blackboards	194 36	
J. Foster Ober, services as architect	43 88	
F. P. Baker & Co., lumber	28 24	
Moses Pond & Co., material and labor	72 00	
W. F. Soule, material and labor	71 10	
<i>Amounts carried forward,</i>	\$409 58	\$34,935 36

<i>Amounts brought forward,</i> .	\$409 58	\$34,935 36
Walworth Manufacturing Compa- ny, material and labor . . .	11 55	
H. H. Hunt, material and labor .	9 24	
C. G. Fletcher, material and labor	8 94	
W. A. Fogwill, material and labor	7 25	
N. and W. Gaslight Co., material and labor	6 49	
Patrick O'Donnell, labor . . .	17 50	
Michael McCarty, labor . . .	17 07	
Edward Pendergast, labor . . .	14 87	
Andrew Farrell, labor . . .	12 25	
Michael McCarty, 2d, labor . .	11 82	
John Leech, labor	9 63	
Joseph Flaherty, labor . . .	7 88	
Patrick Meoley, labor . . .	7 00	
John Corls, labor	6 13	
Patrick Malvy, labor	5 25	
<hr/>		
Total, as per item No. 5 of expenses		\$562 45
Total expenditure		\$35,497 81

Books, Stationery and Printing.

Appropriation		\$2,150 00
George H. Pratt, printing audi- tors' report, etc.	\$706 20	
Fanning Printing Co., printing, etc.	275 41	
Rice & Drake, printing, etc. .	84 40	
Newton Graphic, printing and ad- vertising	72 78	
<hr/>		
<i>Amounts carried forward,</i> .	\$1,138 79	\$2,150 00

<i>Amounts brought forward,</i>	\$1,138 79	\$2,150 00
Rand, Avery & Co., printing, etc.	40 00	
Spectator Job Print, printing, etc.	39 75	
F. D. Graves, printing, etc.	38 64	
A. Mudge & Son, printing, etc.	27 15	
P. T. Bartlett, printing, etc.	8 50	
Rockwell & Churchill, printing, etc.	5 75	
F. A. Searle, printing, etc.	2 00	
Charles H. Stacy, stamped envel- opes, etc.	223 74	
American Bank Note Co., check books	45 00	
J. Q. Fuller, Boston directories	30 00	
Drew, Allis & Co., Newton direct- ories	9 00	
Boston Daily Advertiser, paper and advertising	18 65	
Journal Newspaper Co., advertis- ing	7 13	
J. C. Clark Printing Co., blank book	15 25	
The Cyclostyle Co., for cyclostyle	13 00	
J. Q. Bradish & Co, pens	10 50	
George M. Demming, rubber bands	5 50	
C. J. Peters & Son, city seals	3 50	
H. A. Ball, penholders	2 35	
J. A. Kenrick, treasurer, error in bill	04	
Ward & Gay, supplies	146 97	
<i>Amounts carried forward,</i>	\$1,831 21	\$2,150 00

<i>Amounts brought forward</i>	\$1,831 21	\$2,150 00
Samuel Hobbs & Co., supplies .	73 40	
Hooper, Lewis & Co., supplies .	70 15	
J. L. Hammett, supplies . .	44 28	
A. R. Gay & Co., supplies . .	41 25	
Thomas Groom & Co, supplies .	22 00	
M. R. Warren, supplies . .	12 81	
H. C. Dimond & Co., supplies .	14 45	
Annis & Taylor, supplies . .	10 91	
American Writing Machine Co. .	10 35	
J. A. Travis, supplies . . .	8 25	
Carter, Rice & Co., supplies .	4 55	
Denison Manufacturing Company, supplies	3 00	
F. Murphy, supplies	1 80	
A. L. Shipman's Sons, supplies .	1 50	
<hr/>		
Total, as per item No. 6 of expenses		\$2,149 92
		<hr/>
Balance, unexpended, trans- ferred into treasury .		08

Board of Health.

Appropriation		\$2,300 00
Nathan Mosman, services as agent for Board	\$800 00	
Nathan Mosman, sundry cash ex- penses	1 75	
William H. Mague, collecting house-offal	1,200 00	
Dr. F. E. Crockett, medical attend-		
<hr/>		
<i>Amount carried forward,</i>	\$2,001 75	\$2,300 00

<i>Amounts brought forward</i>	\$2,001 75	\$2,300 00
<i>ance</i>	22 50	
Dr. Eben Thompson, medical attendance	9 10	
Dr. J. A. Mead, medical attendance	5 00	
Dr. D. E. Baker, medical attendance	2 00	
Dr. F. E. Porter, medical attendance	2 00	
J. R. McLaughlin, medical attendance	2 00	
Geo. H. Pratt, advertising	67 70	
Newton Graphic, advertising	24 00	
Fanning Printing Co., printing	8 50	
F. D. Graves, printing	1 60	
I. F. Kingsbury, sundry expenses	17 44	
Arthur Hudson, analysis of water	10 00	
Ward & Gay, supplies	18 30	
F. Murphy, supplies	2 00	
H. C. Dimond & Co., supplies	1 50	
Central Stables, use of teams	10 50	
H. A. Spear, use of teams	12 00	
S. F. Cate, use of teams	8 50	
Fred B. Spear, use of teams	6 00	
Daniels Nonantum Stables, use of teams	4 00	
D. Harrington & Son, use of teams	1 50	
Tucker Man'f. Co., iron bedsteads	16 80	
C. F. Eddy & Co., coal	3 00	
C. H. Jenison, expressage	50	
M. J. Cox, burying animals	9 00	
John Newton, burying animals	3 00	
Peter Horrigan, burying animals	2 50	
<i>Amounts carried forward</i>	<u>\$2,272 69</u>	<u>\$2,300 00</u>

<i>Amounts brought forward,</i>	\$2,272 69	\$2,300 00
J. U. Kimball, burying animals	2 00	
Scott F. Davis, burying animals	2 00	
Seth Johnson, burying animals	1 00	
J. O'Donnell, burying animals	1 00	
Fred C. Smith, burying animals	1 00	
S. B. Maxwell, burying animals	1 00	
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Total, as per item, No. 7 of expenses		\$2,280 69
Balance unexpended, transferred into treasury		\$19 31

Burial-Grounds.

Appropriation		\$250 00
Newton Cemetery Corporation,		
material and labor	\$136 75	
Gilkey and Stone, lumber,	14 04	
Daniel Condrin, stone wall	5 00	
Newton Cemetery Corporation,		
services, Henry Ross, Supt.	94 21	
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Total, as per item No. 8 of expenses		\$250 00

Conveyance of Pupils.

Appropriation	\$650 00	
Transferred from general appropri-		
ation for schools	250 00	
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		\$900 00
Fred B. Spear	900 00	
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Total, as per item No. 9 of		
expenses		\$900 00

Curbing.

Appropriation		\$1,500 00
John A. Kenrick, treasurer, labor, men and teams, highway de- partment	\$598 47	
Noah Prescott, curbstones . . .	677 53	
Boston and Albany Railroad cor- poration, freight	224 00	
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Total, as per item No. 10 of expenses		\$1,500 00

City Hall Expenses.

Appropriation		\$1,600 00
N. and W. Gaslight Co., gas . . .	\$545 43	
C. F. Eddy & Co., coal	450 05	
M. G. Crane, wood	8 00	
Water department, use of water .	77 00	
J. D. Wellington, sundry cash ex- penses	248 44	
L. J. Kendall, ice	30 00	
C. H. Jenison, expressage	20 98	
Patterson & Lavender, desk . . .	19 00	
Lawrence, Wilde & Co., chairs . .	16 00	
Thomas Canfield, cleaning cess- pool	9 00	
Newton Odorless Excavating Co., cleaning cess-pool	5 00	
S. C. Ayres, repairing clocks . . .	5 00	
A. J. Macomber, repairing clocks .	2 00	
A. & E. Burton & Co., feather dusters	2 50	
<hr/>		
<i>Amounts carried forward,</i> . . .	\$1,438 40	\$1,600 00

<i>Amount brought forward,</i>	\$1,438 40	\$1,600 00
Purdy & White, cleaning carpet .	2 24	
H. H. Hunt, material and labor .	151 64	
Christopher Needham, material and labor	36 50	
W. H. French & Co., material and labor	28 44	
O. F. Lucas, material and labor .	8 30	
C. S. Phillips, material and labor .	5 50	
C. A. Cole, material and labor .	2 25	
Germicide Co., supplies . .	19 50	
H. C. Wood, supplies . .	7 00	
Abram French & Co., supplies .	6 50	
R. Hollings & Co., supplies .	1 00	

Total, as per item No. 11 of expenses		\$1,707 27
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Balance, overdrawn, transferred into treasury		\$107 27
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City Engineer's Department.

Appropriation		\$6,750 00
Albert F. Noyes, services as city engineer	\$2,100 00	
H. D. Woods, services as assistant city engineer	392 90	
Fred H. Barnes, services as assistant city engineer	995 00	
William S. French, services as assistant city engineer	551 48	
I. W. Hastings, services as assistant city engineer	696 10	
<i>Amounts carried forward,</i> .	\$4,735 48	\$6,750 00

<i>Amounts brought forward,</i>	\$4,735 48	\$6,750 00
W. P. Morse, services as assistant city engineer	572 00	
A. L. Woodruff, services as assistant city engineer	492 08	
Frank L. Preble, services as assistant city engineer	190 20	
Stephen Child, services as assistant city engineer	99 23	
David Hinckley, services as assistant city engineer	11 18	
Incidental repairs, travelling expenses, etc., of engineer and assistants	203 61	
Albert Brackett, for grain	154 70	
Ward & Co., material and labor	23 85	
A. W. Ward, material and labor	18 60	
J. Carroll, material and labor	6 57	
W. White & Co., supplies	61 57	
B. Illfelder & Co., supplies	55 08	
Wadsworth, Howland & Co., supplies	44 50	
Frost & Adams, supplies	36 39	
Buff & Berger, supplies	23 85	
Chandler & Farquhar, supplies	2 50	
J. D. F. Brooks, binding plans	5 25	
The Hectograph Co., paper	5 00	
Stephen F. Cate, use of teams	6 00	
C. G. Tinkham, use of teams	1 00	
C. H. Jennison, expressage	1 35	

Total, as per item No. 12 of

expenses \$6,749 99

Balance unexpended, transferred into treasury 01

Drains and Culverts.

Appropriation	\$12,000 00	
Transferred to highways, general repairs	\$3,000 00	
Transferred to sidewalks and street crossings	1,000 00	
Transferred to land dam- ages	550 00	
	<hr/>	4,550 00
		<hr/>
		\$7,450 00
John A. Kenrick, treasurer, labor, men and teams, highway de- partment	\$5,374 55	
F. E. Hamblin, drain pipe, etc. .	521 30	
H. W. Clapp & Co., sewer-caps .	426 00	
M. W. Sands, brick	361 25	
Waldo Brothers, cement	316 10	
Noah Prescott, stone	113 75	
E. B. Haskell, stone	37 00	
Newton Cemetery Corporation, stone	20 40	
Albert H. Roffe, stone	13 80	
George Frost, stone	8 00	
Pine Farm School, stone	3 50	
George D. Dix, stone	2 50	
Pettee Machine Works, material and labor	89 96	
M. Frank Lucas, material and labor	35 32	
W. E. Porter, material and labor	24 50	
Milo Lucas, material and labor .	9 00	
	<hr/>	
<i>Amounts carried forward, .</i>	\$7,356 92	\$7,450 00

<i>Amounts brought forward</i>	\$7,356 93	\$800 00
Samuel D. Garey, material and labor	7 17	
Boston & Albany Railroad, freight	47 00	
N. Y. & N. E. Railroad, freight	18 00	
George L. Pearson, expressage	20 10	
C. H. Hurd, expressage.	80	
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Total, as per item No. 13 of expenses		\$7,450 00

Evening Schools.

Appropriation	\$550 00	
Transferred from general appropriation for schools	167 54	
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		\$717 54
Levi F. Warren, teacher	\$99 00	
Herbert E. Thayer, teacher	103 50	
Sharler Mathews, teacher	6 00	
Sarah Hopkinson, teacher	77 50	
Emma B. Wilkins, teacher	67 50	
Charlotte N. Wilkins, teacher	67 50	
Ethel Cushing, teacher	34 50	
John E. Cummings, teacher	34 50	
Nellie P. Warren, teacher	33 00	
Kate F. Mellish, teacher	33 00	
Lulu M. Bagley, teacher	31 50	
Sarah M. Davis, teacher	30 00	
Ellen M. Doherty, teacher	28 50	
John McCammom, janitor	33 75	
N. & W. Gas Light Co., gas	35 33	
H. F. Wellington, material and labor	2 46	
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Total, as per item No. 14 of expenses		\$717 54

Fire Department.

Appropriation	\$22,900 00
Henry L. Bixby, chief of department .	\$1,500 00
William Bemis, assist- ant chief of de- partment . . .	62 50
	<hr/> \$1,562 50

STEAMER NO. 1.

F. E. Judkins, en- gineer . . .	\$950 00		
H. C. Lindley, substi- tute engineer .	36 54		
F. H. Harrington, driver . . .	750 00		
O. A. Chick, substi- tute driver .	28 84		
H. C. Lindley, stoker	95 83		
Charles A. Thayer, substitute stoker	4 17		
F. D. Graves, foreman	110 00		
C. W. H. Boulton, as- sistant foreman and secretary .	105 00		
R. J. Morrissey, hose- man . . .	100 00		
J. F. Horrigan, hose- man . . .	100 00		
E. W. Lyons, hose- man . . .	100 00		
O. A. Chick, hoseman	83 33		
	<hr/>	<hr/>	<hr/>
<i>Am'ts carried forw'd,</i>	\$2,463 71	\$1,562 50	\$22,900 00

<i>Am'ts brought for'd.</i>	\$2,463 71	\$1,562 50	\$22,900 00
E. P. Leavitt, hose- man . . .	83 33		
F. E. Liddell, hose- man . . .	75 00		
Walter Pingree, hose- man . . .	25 00		
John McCammon, hoseman . . .	16 66		
R. F. Gilfeather, hose- man . . .	8 33		
	<hr/>	\$2,672 03	

STEAMER NO. 2.

R. S. Cummings, en- gineer . . .	950 00		
G. K. Stacy, substi- tute engineer . .	36 54		
C. L. Berry, driver .	750 00		
A. A. Mosher, substi- tute driver . .	28 84		
G. K. Stacy, stoker .	97 15		
Joseph Cummings, substitute stoker	3 85		
George H. Haynes, foreman . . .	110 00		
F. H. Humphrey, as- sistant foreman and secretary .	105 00		
J. Q. A. Hawkes, hose- man . . .	100 00		
	<hr/>	<hr/>	<hr/>
<i>Am'ts carried forw'd,</i>	\$2,181 38	\$4,234 53	\$22,900 00

<i>Am'ts brought forw'd,</i>	\$2,181 38	\$4,234 53	\$22,900 00
W. F. Rand, hoseman	100 00		
R. J. Riley, hoseman .	100 00		
H. W. Nicholl, hose- man	100 00		
F. T. Burgess, hose- man	83 33		
C. J. Crowley, hose- man	41 68		
C. M. Kibbe, hoseman	41 67		
Joseph Cummings, hoseman . . .	12 60		
J. P. Crosby, hoseman	8 33		
	<hr/>	\$2,668 99	

STEAMER NO. 3.

A. D. Colby, engineer	950 00		
Charles A. Peck, sub- stitute engineer .	36 54		
John Foley, substitute engineer during illness of Mr. Colby from inju- ries received while in discharge of duty	49 44		
A. C. Jewett, driver .	750 00		
John Deary, substi- tute driver .	28 84		
John Foley, substi- tute driver .	12 24		
Chas. A. Peck, stoker	80 21		
	<hr/>	<hr/>	<hr/>
<i>Am'ts carried for'd .</i>	\$1,907 27	\$6,903 52	\$22,900 00

<i>Am'ts brought forward,</i>	\$1,907 27	\$6,903 52	\$22,900 00
A. I. English, foreman	110 00		
S. F. Chadbourne, as- sistant foreman and secretary .	105 00		
C. P. Garey, hoseman	100 00		
Daniel McDonald, hose- man	100 00		
C. J. Polley, hoseman	100 00		
C. E. Thompson, hose- man	100 00		
Alfred Mosher, hoseman	95 83		
W. A. Thompson, hose- man	87 49		
J. McMahon, hoseman	16 66		
	<hr/>	2,722 25	

HOOK AND LADDER NO. 1.

Charles Murphy, driver	750 00
Martin Murphy, substi- tute driver . . .	28 84
W. S. Higgins, foreman	110 00
F. B. Sisson, assistant foreman and secre- tary	105 00
J. H. Williams, ladder- man	100 00
O. Dow, ladderman .	100 00
T. C. Nickerson, ladder- man	100 00
H. J. Williams, ladder- man	100 00

<i>Am'ts carried forw'd,</i>	\$1,393 84	\$9,625 77	\$22,900 00
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<i>Am'ts brought for'd,</i>	\$1,393 84	\$9,625 77	\$22,900 00
J. Beal, ladderman .	100 00		
C. Coleman, ladderman	100 00		
J. F. Horrigan, ladder-			
man	100 00		
J. B. Watt, ladderman	100 00		
M. McLeod, ladderman	100 00		
U. H. Dyer, ladderman	100 00		
	<hr/>	1,993 84	

HOSE COMPANY NO. 4.

J. E. Watson, driver .	600 00		
O. A. Chick, substi-			
tute driver . . .	22 82		
E. C. Waterhouse, fore-			
man	110 00		
A. J. Wardless, assist-			
ant foreman and sec-			
retary	105 00		
Daniel Archibald, hose-			
man	100 00		
F. A. Dexter, hoseman	100 00		
F. Lancaster, hoseman	70 83		
John Deary, hoseman	29 16		
	<hr/>	1,137 81	

HOSE COMPANY NO. 5.

William F. Soule, fore-			
man	\$55 00		
<i>Am'ts carried forward,</i>	\$55 00	\$12,757 42	\$22,900 00

<i>Am'ts brought forward,</i>	\$55 00	\$12,757 42	\$22,900 00
J. F. Washburn, fore- man, assistant foreman and sec- retary . . .	107 50		
J. U. Kimball, assist- ant foreman, sec- retary and hose- man . . .	102 50		
John Frost, hoseman .	100 00		
J. M. Taylor, hoseman	100 00		
C. G. Fletcher, hose- man	100 00		
	<hr/>	\$565 00	

HOSE COMPANY NO. 6.

Bernard Early, fore- man	\$110 00		
H. H. Miles, assistant foreman and sec- retary . . .	105 00		
D. J. Corcoran, hose- man	100 00		
P. E. O'Neil, hoseman	100 00		
D. J. Cooney, hoseman	100 00		
T. E. Haley, hoseman	100 00		
	<hr/>	\$615 00	

<i>Amounts carried forward</i>	.	<hr/> \$13,937 42	<hr/> \$22,900 00
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Am'ts brought for'd, \$13,937 42 \$22,900 00

HOSE COMPANY NO. 7.

W. S. Cargill, foreman . . .	\$110 00	
Harley A. Smith, assistant foreman and secretary .	105 00	
J. E. Trowbridge, hoseman . . .	100 00	
J. T. Thomason, hoseman . . .	100 00	
C. E. Rand, hoseman	100 00	
G. H. Osborne, hoseman . . .	100 00	
		\$615 00
16 firemen, extra services, July 4 .		48 00

Repairs, Supplies and Incidentals.

Charles H. & Edgar Snow, horse	\$325 00	
Frank Edmands, cash exchange of horses	50 00	
H. W. Crowell, grain . . .	892 12	
N. W. Tupper, grain . . .	675 01	
Albert Brackett, grain . . .	571 92	
E. Smead & Co., grain . . .	520 54	
Albert Brackett, coal and wood .	544 80	
C. F. Eddy & Co., coal and wood .	391 35	
Hills, Bullens & Co., coal and wood	63 50	
N. and W. Gaslight Co., gas .	343 87	
<i>Am'ts carried for'd,</i>	\$18,978 53	\$22,900 00

<i>Amounts brought forward</i>	\$18,978 53	\$22,900 00
Water department, use of water	201 00	
M. Bunker, attendance upon sick horses	155 50	
J. R. McLaughlin, attendance upon sick horses	39 00	
S. F. Cate, use of horses	46 00	
Timothy Stuart, use of horses	21 88	
J. O. Watson, use of horses	21 87	
Dennis Leahy, use of horses	14 90	
Charles H. Hale, use of horses	10 50	
A. H. Roffe, use of horses	9 00	
Nonantum Stables, use of horses	8 00	
John Joyce, use of horses	6 13	
S. L. Pratt, use of horses	3 50	
William Weir, use of horses	2 00	
Alvarado Mayer, three relief valves	254 10	
W. H. Wilson, fire hats	177 25	
Manchester Locomotive Works, engine pole, etc.	112 44	
P. A. McVicker, new pung, etc.	70 25	
Abbot-Downing Co., new wheels, etc.	65 00	
American Steam Gauge Co., nozzles	60 00	
A. S. Jackson, belts, etc.	54 50	
Ryan Bros., setting tires, etc.	49 77	
W. C. Smith, hose reel hitches	36 00	
Ordway, Kimball, & Loring, bits, etc.	31 33	
<i>Am'ts carried for'd,</i>	<u>\$20,428 45</u>	<u>\$22,900 00</u>

<i>Amounts brought forward,</i>	\$20,248 45	\$22,900 00
Tucker Manf. Co., iron beds, etc.	29 75	
H. L. Bixby, expenses to national convention	25 40	
Harden Hand Grenade Ex. Co., 2 doz. grenades	20 00	
George Woodman & Co. three brass valves	18 00	
Sherborn & Co., waste	16 39	
C. Callahan, shut off nozzle	15 00	
G. H. Osborne, care and exercise of horse	15 00	
Cable Rubber Co., hose	12 50	
Leander Barber, brooms	12 25	
Scrannage Bros. & Cook, gong, etc.	12 20	
R. Stanley, liniment	12 00	
John H. Pray, Sons & Co., oil carpet, etc.	11 75	
F. E. Jenison, soap	11 00	
Newton Odorless Excavating Co., cleaning vaults	10 00	
L. J. Kendall, ice	9 40	
George H. Ellis, ice	7 50	
Howard Bros., ice	5 76	
F. Murphy, packing	9 31	
George L. Baxter, fire engine lighters	7 20	
Charles E. Berry, rein snaps, etc.	7 00	
S. F. Danforth & Co., horse salve	6 00	
Boston Nickel Plating Co., plating bands, etc.	5 50	
<i>Amounts carried forward</i>	\$20,707 36	\$22,900 00

<i>Amounts brought forward</i>	. \$20,707 36	\$22,900 00
Whittier Machine Co., labor on boiler	4 65	
M. G. Crane, wood	4 25	
Hill & Langtry, horse clipper, etc.	4 00	
A. J. Morse & Son, rein snaps . .	4 00	
Putnam & Co., mattress	2 75	
Parsons & Co., dressing	2 25	
A W. Mitchell, altering and re- pairing badge	2 00	
Snowflake Oil Co., axle grease . .	1 50	
F D. Graves, printing cards . .	1 50	
D. J. Mahoney, watching fire . .	1 50	
J C. Farrar, blacksmithing . . .	234 40	
Murray & Farrell, blacksmithing .	216 76	
B F. Barlow, blacksmithing . . .	104 34	
Andrew Peters, blacksmithing . .	87 97	
B. McFaden, blacksmithing . . .	29 75	
Thomas Belger, blacksmithing . .	17 76	
C. A. Cole, blacksmithing	9 20	
Scott & Maher, blacksmithing . .	3 60	
Waltham Steam Laundry, laundry work	144 01	
Charles Murphy, laundry work . .	36 00	
Margaret Smith, laundry work . .	29 62	
Mrs. Thomas Purcill, laundry work	23 90	
Harley A. Smith, laundry work . .	23 28	
Mrs. S. J. Bliss, laundry work . .	4 06	
F. H. Harrington, laundry work . .	3 69	
Mrs. Thomas Ervin, laundry work	2 56	
<i>Amounts carried forward,</i>	. \$21,706 66	\$22,900 00

<i>Amounts brought forward,</i>	. \$21,706 66	\$22,900 00
Speare, Gregory & Co., oil . .	21 12	
Lustralis Mfg. Co., oil . .	6 45	
A. A. Mosher, services . .	2 61	
C. H. Jenison, expressage . .	17 40	
Eames express, expressage . .	5 70	
Fife's express, expressage . .	2 70	
D. W. Brownell, material and labor	33 10	
J. Carroll, material and labor .	29 80	
Peter Gray, material and labor .	27 37	
Arthur M. Gooch, material and labor	18 30	
Pettee Machine Works, material and labor	18 07	
E. W. Hodgson, material and labor	18 10	
D. H. McWain, material and labor	18 00	
R. Langtry, material and labor .	18 00	
C. S. Phillips, material and labor .	12 50	
F. H. Humphrey, material and labor	11 08	
William Welch, material and labor	10 49	
P. Y. Hoseason, material and labor	10 00	
Robbins & Healey, material and labor	8 50	
George Fuller, material and labor	6 64	
W. F. Rand, material and labor .	6 50	
O. B. Leavitt, material and labor .	5 79	
Cranitch & Horrigan, material and labor	3 00	
<i>Amounts carried forward,</i>	. \$22,017 88	\$22,900 00

<i>Am'ts brought forward,</i>	\$22,017 88	\$22,900 00
J. H. Williams, material and labor	2 50	
Alfred Fitzpatrick, material and labor	2 10	
S. D. Garey, material and labor	1 79	
H. H. Hunt, material and labor .	1 50	
D. J. Cooney, material and labor .	1 50	
C. F. Hovey, supplies . .	48 57	
Barber Bros., supplies . .	22 88	
George H. Ingraham, supplies .	21 91	
Peck & Whipple Co., supplies .	18 00	
H. E. Woodberry, supplies .	13 35	
J. E. Trowbridge, supplies . .	10 52	
W. H. Gallison, supplies . .	10 00	
I. R. Stevens, supplies . .	9 16	
W. C. Gaudalet, supplies . .	8 33	
American Fire Hose Mfg. Co., supplies	6 00	
M. F. Whiton & Co., supplies .	5 84	
Isaac H. Snow, supplies . . .	5 50	
A. W. Snow, supplies . .	5 20	
W. O. Knapp & Co., supplies .	4 20	
John J. Noble, supplies . .	3 78	
H. W. Wellington, supplies .	3 30	
H. B. Coffin, supplies . . .	3 23	
B. F. Houghton, supplies . .	2 35	
Boston Belting Co., supplies .	2 33	
C. W. Morehouse, supplies . .	2 20	
C. F. Rogers, supplies . . .	2 15	
S. O. Thayer & Co., supplies .	1 65	
A. A. Savage, supplies . . .	1 40	
<i>Amounts carried forward,</i>	<hr/> \$22,239 12	<hr/> \$22,900 00

<i>Amounts brought forward,</i>	\$22,239 12	\$22,900 00
H. C. Lindley, shoveling snow from hydrants	1 75	
R. J. Riley, shoveling snow from hydrants	1 75	
G. K. Stacy, shoveling snow from hydrants	1 75	
A. A. Mosher, shoveling snow from hydrants	1 75	
A. J. Wardless, shoveling snow from hydrants	1 75	
J. F. Washburn, shoveling snow from hydrants	1 75	
D. J. Cooney, shoveling snow from hydrants	1 75	
Sundry small bills	11 22	
	<hr/>	
	\$22,262 59	

FIRE-ALARM TELEGRAPH.

W. B. Randlett, fire alarm telegraph operator . . .	\$918 84		
C. A. Peck, substitute fire alarm tele- graph operator .	15 62		
John Foley, substitute fire alarm tele- graph operator .	15 60		
Edwin Rogers, signal boxes, etc. . . .	259 47		
	<hr/>	<hr/>	<hr/>
<i>Amts. carried forw'd</i>	\$1,209 53	\$22,262 59	\$22,900 00

<i>Amts. brought for'd,</i>	\$1,209 53	\$22,262 59	\$22,900 00
Washburn & Moen			
Manufacturing			
Co., wire . . .	130 25		
Edward E. Rice & Co.,			
vitriol . . .	95 02		
Brownlee & Co., tele			
graph poles .	85 90		
B. and A. Railroad,			
freight . . .	83 45		
Abiel Pevey, zincs .	83 32		
C. F. Crehore & Son,			
fuel for fire-alarm			
whistle . . .	75 00		
L. Cameron, labor .	96 25		
John McCarty, labor	48 13		
Thomas Spencer, labor	48 13		
John Barrett, labor .	14 00		
J. C. Farrar, black-			
smithing . . .	50 36		
C. A. Cole, black-			
smithing . . .	47 45		
Charles L. Bly, wire,			
etc.	34 45		
William Welch, new			
harness . . .	34 00		
M. G. Crane, supplies	32 00		
M. F. Lucas, cross-			
arms, etc. . . .	31 94		
Timothy Stuart, cart-			
ing telegraph			
poles	29 14		

Am'ts carried forw'd, \$2,228 32 \$22,262 59 \$22,900 00

<i>Am'ts brought for'd,</i>	\$2,228 32	\$22,262 59	\$22,900 00
J. O. Watson, carting telegraph poles .	18 00		
N. and W. Gaslight Co., gas . . .	10 58		
H. L. Bixby, cash paid for labor . . .	8 25		
A. C. Jewett, horse collar . . .	5 00		
B. Early, labor on fire- alarm whistle .	5 00		
Eames express, ex- pressage . . .	3 75		
Western Electric Co., bell	3 00		
William Welch, ma- terial and labor .	14 72		
J. H. Burrill & Co., material and la- bor	7 90		
Adam Beck, material and labor . . .	7 91		
F. H. Humphrey, ma- terial and labor .	5 63		
John Cain, material and labor . . .	4 38		
D. H. McWain, ma- terial and labor .	3 50		
S. D. Garey, material and labor . . .	2 23		
Sundry small bills .	11 11		
	<hr/>	\$2,339 28	
Total, as per item No. 15 of expenses .			\$24,601 87
Balance, overdrawn, transferred into treasury .			<hr/> \$1,701 87

Funded Debt.

Paid to City Institution for Savings, Lowell, town of Newton, note 6 per cent., due Oct. 3, as per item No. 16 of expenses . . .	\$20,000 00
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Funded Debt.—Schoolhouse Note.

Paid to Lynn Institution for Savings, note 4 per cent., due Jan. 25, as per item No. 17 of expenses	5,150 00
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Gravel Land.

Appropriation	\$3,000 00	
Transferred from appropriation for miscellaneous expenses	300 00	
	<hr/>	\$3,300 00
Union Institution for Savings, for land on Pine street	\$2,000 00	
J. Thomas Baldwin, for land on Pine street	1,200 00	
F. E. Hamblin, for sand	32 75	
Albert H. Roffe, gravel	29 90	
Joseph N. Bacon, gravel	22 63	
Patrick Ryan, gravel	6 30	
Daniel Warren, for sand	4 00	
Timothy Stuart, for sand	1 00	
	<hr/>	
Total, as per item, No. 18 of expenses		\$3,296 58
		<hr/>
Balance unexpended, transferred into treasury		\$3 42

Highways, General Repairs.

Appropriation	\$50,000 00	
Additional appropriation by order of City Council	5,000 00	
Transferred from City Treasury by order City Council, amount received from Boston & Al- bany Railroad Corporation, for material and labor upon approaches to the bridges over the tracks of the Circuit Railroad	9,216 93	
Transferred from City Treasury by order of City Council, amount received from abut- tors on Bellevue street in part for reconstruction of said street	3,000 00	
Transferred from appropriation for drains and culverts, by order of City Council	3,000 00	
Transferred from City Treasury by order of City Council, from sale of old horse	45 00	
	<hr/>	\$70,261 93
William E. Fuller, services as su- perintendent of streets	\$1,500 00	
William E. Fuller, sundry cash expenses	7 00	
John J. Ware, assistant superin- tendent of streets	852 50	
	<hr/>	
<i>Am'ts carried for'd,</i>	\$2,359 50	\$70,261 93

<i>Am'ts brought for'd,</i>	\$2,359 50	\$22,900 00
John A. Peck, assistant superintendent of streets . . .	852 50	
George E. Stuart, assistant superintendent of streets . . .	1,030 25	
Samuel M. Jackson, assistant superintendent of streets . . .	51 00	
John A. Kenrick, treasurer, amount paid laborers on discharged tickets . . .	6,600 68	
John A. Kenrick, treasurer, amount paid laborers upon highways, as per pay-rolls	39,932 20	
W. H. Thompson, horses and exchange of horses . . .	1,095 00	
Water Department, use of water, etc.	192 80	
Albert Brackett, grain . . .	677 25	
N. W. Tupper, grain . . .	555 81	
E. Smead & Co., grain . . .	216 30	
H. W. Crowell, grain . . .	193 42	
George E. Johnson, grain . . .	35 40	
Nathan Haynes, hay . . .	465 61	
N. B. Douglass, hay . . .	298 82	
A. B. Potter, hay . . .	215 89	
George R. Collins, hay . . .	193 65	
Conrad Decker, hay . . .	183 64	
David Hall, hay . . .	164 86	
George M. Baker, hay . . .	102 00	
J. S. Carey, hay . . .	101 43	
Estate of L. C. Tolman, hay . . .	53 70	
<i>Amounts carried forward,</i> .	<hr/> \$55,571 71	<hr/> \$70,261 93

<i>Amounts brought forward</i>	\$55,571 71	\$70,261 93
Thomas Haynes, hay	33 38	
T. A. Collins, hay	26 67	
M. C. Morrill, hay	21 54	
C. F. Eddy & Co., hay and straw	454 06	
Albert Brackett, hay and straw .	325 31	
Almshouse department, hay and straw	318 59	
William Dix, hay and straw .	77 40	
E. Smead & Co., hay and straw .	61 02	
J. Stearns, straw	58 64	
H. W. Crowell, straw	48	
N. W. Tupper, straw	39 97	
W. C. Strong, straw	26 26	
Dwight Chester, straw	20 80	
Willard Marcy, straw	18 66	
F. Jones, straw	15 65	
J. R. McLaughlin, care of sick horses	121 00	
M. Bunker, care of sick horses .	21 50	
H. M. Darling & Co., tools, etc. .	433 10	
George F. Works, chestnut plank and posts	366 29	
J. H. Whitney, chestnut posts and wood	184 90	
George A. Goodyear, powder and fuse	220 43	
Rockwell & Moseley, powder and fuse	103 50	
John Pulcifer, carts	195 45	
A. F. Leatherbee, lumber .	137 53	
<i>Amounts carried forward</i>	\$58,902 00	\$70,261 93

<i>Amounts brought forward,</i>	\$58,902 00	\$70,261 93
G. Fuller & Son, lumber	42 03	
John J. Ware, use of horse and carriage	200 00	
Rev. M. M. Green, gravel	449 55	
Rev. M. Dolan, gravel	120 30	
James Lyon, trustee, gravel	100 00	
C. S. Pulsifer, gravel	36 40	
William Collier, gravel	30 70	
Benjamin Bourne, gravel, etc.	18 20	
Simpson Bros., concreting	285 01	
F. E. Hamblin, drain-pipes, etc.	182 77	
E. D. Brooks, trimming trees	81 25	
Ames Plow Co., wheel barrows, etc.	56 50	
Vacuum Oil Co., oil	50 70	
N. & W. Gas Light Co., gas	49 03	
William C. Oastler, iron posts, etc.	47 40	
William Jessop & Sons, steel	42 31	
G. E. Gilbert, building wall on Centre street	39 00	
W. H. Bustin, horse collars.	37 00	
E. H. Mulliken & Co., cotton waste	36 11	
J. H. Houghton, pulley	35 00	
Dodge, Haley & Co., hammers	34 75	
Dennis Ryan, sods	31 30	
Patrick Grace, use of watering cart	25 00	
N. Y. & N. E. Railroad, freight.	21 00	
W. L. Dudley, currycombs and brushes	22 00	
<i>Am'ts carried forward,</i>	<hr/> \$60,975 31	<hr/> \$70,261 93

<i>Amounts brought forward</i>	\$60,975 31	\$70,261 93
M. W. Sands, brick	21 00	
R Stanley, liniment	18 00	
C. S Packard, moving building	15 00	
Stephen F. Cate, use of teams	84 00	
Nonantum Stables, use of teams	42 00	
George W. Bush, use of teams	32 00	
W. H. Mague, use of teams.	12 00	
Timothy Stuart, labor, men and teams	44 00	
Samuel M. Jackson, labor, men and teams	41 75	
John Joyce, labor, men and teams	7 88	
C. H Jenison, expressage	15 70	
C. H. Hurd, expressage	9 85	
Eames Express, expressage	2 25	
Joseph Breck & Sons, roller	14 40	
Patrick Shea, sand	13 60	
W. E. Church & Co., lifting jack	12 25	
Leander Barber jr., brooms	11 25	
M. C. Higgins, hose	10 20	
Bradley, Hastings & Co., paving hammers	9 00	
Quincy Harrington, filing saws	7 25	
J. L. Knox, stone post.	6 00	
S. D. Keegan, cart shafts	5 00	
Drs. O. E. and W. O. Hunt, medical attendance	3 00	
F. H. Harrington, clipping horse	3 00	
J. N. Danforth, horse salve	3 00	
<i>Amounts carried forward</i>	\$61,418 69	\$70,261 93

<i>Am'ts brought forward,</i> . . .	\$61,418 69	\$70,261 93
M. Pattie and John Holt, wash- ing and oiling hose. . . .	3 00	
Hill & Langtry, horse clipper . .	3 00	
Bishop & Bros., ladder	2 04	
C. F. Eddy & Co., coal	123 38	
Albert Brackett, coal	111 87	
Cousens Bros., coal	62 77	
George Warren & Co., coal, wood, etc.	22 00	
Hills, Bullens & Co., coal, wood, etc.	30 20	
George Hammill, wood	19 50	
George Wright, wood	6 00	
James Nickelson, coal	5 50	
J. C. Farrar, blacksmithing. . .	987 33	
Murray & Farrell, blacksmithing	750 85	
Andrew Peters, blacksmithing	576 58	
Thomas Belger, blacksmithing . .	499 51	
A. Danforth, Agt., blacksmithing	359 01	
Scott & Maher, blacksmithing	311 23	
Charles A. Cole, blacksmithing	261 12	
P. A. McVicker, blacksmithing	214 64	
B. F. Barlow, blacksmithing . .	97 15	
D. J. O'Donnell, blacksmithing.	81 39	
Charles H. Daniels, blacksmithing	75 88	
John Pulcifer, blacksmithing . .	53 30	
T. W. Mullen, blacksmithing . .	21 60	
J. W. Scott, blacksmithing . . .	20 50	
J. McFaden, blacksmithing . . .	9 26	
<i>Amounts carried forward</i> . . .	<hr/> \$66,127 30	<hr/> \$70,261 93

<i>Amounts brought forward,</i>	\$66,127 30	\$70,261 93
Samuel D. Garey, material and labor	775 15	
Isaac Smith, material and labor	273 07	
T. F. Glennan, material and labor	249 85	
J. Carroll, material and labor .	235 97	
R. J. Morrissey, material and labor	170 76	
George Spring, material and labor	141 92	
The Pettee Machine Works, material and labor	127 22	
Allen Jordan, material and labor	111 68	
William Petigrew, material and labor	107 20	
V. Haffermehl, material and labor	105 12	
Arthur Muldoon, material and labor	100 00	
W. J. Henderson, material and labor	97 70	
E. W. Hodgson, material and labor	95 50	
P. Y. Hoseason, material and labor	93 20	
Cranitch & Horrigan, material and labor	88 20	
Kendall & Roberts, material and labor	81 42	
Higgins & Nickerson, material and labor	56 21	
George Fuller, material and labor	45 02	
W. L. Smith, material and labor .	45 00	
R. O. Evans, material and labor .	41 83	
W. E. Porter, material and labor	41 00	
C. S. Phillips, material and labor	38 51	

Am'ts carried for'd,

\$69,248 83 \$70,261 93

<i>Am'ts brought for'd .</i>	\$69,248 83	\$70,261 93
H. L. White, material and labor .	38 25	
A. W. Snow, material and labor .	37 02	
D. W. Brownell, material and labor	35 20	
Philip Carbry, material and labor	33 05	
W. J. Mulhall, material and labor	30 00	
James Ford, material and labor .	24 35	
William Johnson, material and labor	10 10	
Alfred Fitzpatrick, material and labor	10 36	
C. E. A. Beck, material and labor	9 49	
O. B. Leavitt, material and labor	9 01	
Robbins & Healey, material and labor	7 00	
M. C. Higgins, material and labor	6 71	
W. F. Rand, material and labor .	11 25	
Clark Machine Works, material and labor	6 00	
L. A. Gammons, material and labor	5 80	
H. H. Hunt, material and labor .	5 12	
J. O. Evans Sons', material and labor	5 10	
Michael Taffe, material and labor	5 00	
Robert Gardner, material and labor	3 60	
Hiram Ross, material and labor .	3 50	
Ward & Co, material and labor .	2 50	
<i>Amounts carried forward .</i>	<hr/> \$69,547 24	\$70,261 93

<i>Am'ts brought forw'd</i> . . .	\$69,547 24	\$70,261 93
W. A. Roffe, material and labor .	2 00	
Sabin & Page, supplies . . .	94 25	
Barber Bros., supplies . . .	87 60	
B. F. Houghton, supplies . . .	56 87	
Sewell & Day Cordage Co., sup- plies	42 97	
G. P. Atkins, supplies . . .	39 25	
W. O. Knapp & Co., supplies .	28 24	
Isaac H. Snow, supplies . . .	23 86	
C. W. Morehouse, supplies . .	20 59	
A. A. Savage, supplies . . .	17 93	
Edson Manf. Co., supplies . .	16 25	
S. O. Thayer & Co., supplies .	15 05	
George H. Ingraham, supplies .	14 96	
Howe & French, supplies . . .	14 80	
B. Billings, supplies	14 37	
John M. Galvin, supplies . . .	14 00	
John S. Sumner, supplies . . .	12 02	
C. H. Thompson & Co., supplies	10 90	
Cobb, Bates & Yerxa, supplies.	10 50	
J. W. Davis & Co., supplies .	10 15	
Farrell Foundry & Machine Co., supplies	9 80	
George Tyler, supplies	8 00	
Thomas Hollis, supplies . . .	7 00	
John J. Noble, supplies	6 99	
J. E. Trowbridge, supplies . .	6 55	
Parker & Wood, supplies . . .	6 55	
Ordway, Kimball & Loring, sup- 'plies	6 50	
H. W. Fanning & Son, supplies	3 85	
<i>Amounts carried forward,</i> .	\$70,149 04	\$70,261 93

<i>Amounts brought forward</i>	. \$70,149 04	\$70,261 93
Walworth Manf. Co., supplies	4 35	
O. B. Leavitt, supplies . .	2 86	
W. P. Holden, supplies . .	2 64	
J. Baker & Co., supplies . .	2 56	
A. J. Fiske & Co., supplies .	2 50	
Charles F. Rogers, supplies .	2 40	
Sundry small bills . . .	19 18	

Total, as per item No. 19 of expenses		<u>\$70,185 53</u>
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* Balance unexpended, transferred into treasury		\$76 40
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Highways, Widening, Reconstruction, and Improvements.

Appropriation	\$15,000 00	
Additional by order of City Council	2,000 00	
	<u> </u>	\$17,000 00

John A. Kenrick, Treasurer, amount paid for labor and teams as per pay rolls . .	\$16,146 61	
Simpson Bros., concreting . .	347 12	
Higgins & Nickerson, material and labor	328 38	
C. H. & A. F. Ireland, material and labor	62 58	
W. L. Smith, material and labor.	2 15	
B. F. Barlow, blacksmithing .	53 16	
Charles A. Cole, blacksmithing .	17 50	
Waldo Bros., cement . .	20 00	
A. S. Morss, supplies . . .	12 00	
M. W. Sands, brick . . .	10 50	

Total as per item No. 20 of expenses		<u>\$17,000 00</u>
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Improvement on Public Squares.

Appropriation	\$6,000 00	
Additional appropriation by order of City Council	5,000 00	
		<hr/>
		\$11,000 00
Newton Cemetery Corporation, for labor, men and teams, n- cluding services of Henry Ross, superintendent	5,383 19	
Robert M. Gill, for cutting and resetting curbing	1,499 55	
Simpson Bros., concreting	819 53	
Noah Prescott, curbing	591 30	
T. F. Mague, labor, men and teams	337 15	
Charles H. Hale, labor, men, and teams	99 10	
Arthur Muldoon, labor, men, and teams	44 00	
C. H. Delan, labor, men and teams	21 00	
A. J. Allen, labor, men and teams	15 00	
Daniel Condrin, labor, men, and teams	15 00	
Thomas Callahan, labor, men and teams	10 50	
Highway Department, labor, men and teams	26 45	
C. Reynolds, labor, men and teams	7 00	
C. H. and A. F. Ireland, material and labor	310 01	
W. E. Porter, material and labor	79 00	
L. A. Ross, material and labor	24 41	
		<hr/>
<i>Amounts carried forward,</i>	\$9,282 19	<hr/> \$11,000 00

<i>Amounts brought forward,</i>	\$9,282 19	\$11,000 00
J. O. Evans Sons, material and labor	10 95	
Water Department, laying water pipes, Farlow Park . . .	251 66	
N. & W. Gas Light Co. laying gas pipes, Farlow Park .	26 20	
W. P. Wentworth, drawing plans	20 00	
Waldo Bros. grates, etc. . . .	55 33	
Charles A. Cole, stakes . . .	17 50	
M. Frank Lucas, stakes . . .	15 00	
B. & A. Railroad, freight . . .	16 80	
W. S. Seaverns, plowing Walcott Park	10 00	
James Dorr, manure	33 00	
Charles G. Tinkham, manure .	21 00	
J. Jennison, manure	20 12	
Butcher's Slaughtering and melting Asso. manure	16 50	
George M. Fiske, cash paid for manure.	12 98	
Ham & Carter, stone	26 00	
R. M. Pulsifer & Co., advertising	5 50	
Journal Newspaper Co., advertising	4 50	
The Globe Newspaper Co., advertising	4 50	
Stephen F. Cate, use of teams	5 00	
D. Harrington & Son, use of teams	3 50	
J. H. Whitney, use of teams .	2 62	
Total, as per item No. 21 of expenses		\$9,860 85
Balance unexpended, transferred into treasury		\$1,139 15

Interest on City Loans, Temporary and Permanent.

Appropriation	\$25,200 00
Commonwealth of Massachusetts	\$10,610 00
City Institution for savings, Lowell	3,600 00
National Bank of the Commonwealth	3,580 00
Blake Bros. & Co.	2,356 25
Lynn Institution for Savings	1,442 00
Brewster, Cobb & Easterbrook	1,207 50
New England Trust Co.	875 00
Richardson, Hill & Co.	656 25
Potter, Lovell & Co.	349 83
Winchester Savings Bank	206 00
Cape Ann Savings Bank	206 00
Kenrick Fund	49 17

Total, as per item No. 22 of expenses \$25,138 00

Balance unexpended, transferred into treasury \$62 00

Interest on Water Bonds.

Appropriation	\$53,100 00
January 1st, National Bank of the Commonwealth	\$24,250 00
April 1st, National Bank of the Commonwealth	2,300 00
July 1st, National Bank of the Commonwealth	24,250 00
October 1st, National Bank of the Commonwealth	2,300 00

Total, as per item No. 23 of expenses \$53,100 00

Indigent Soldiers and Sailors.

Appropriation	\$1,000 00
Samuel G. Toothachre	\$120 00
Samuel Wallis	110 00
Albert P. Bugbee	96 00
John N. Nichols	96 00
John F. Franklin	96 00
Samuel Franklin	96 00
Franklin D. Hill	72 00
James H. Lockley	72 00
Jefferson Thomas	48 00
John Sexton	33 00
John Curtin	20 00
Patrick Carrigan	48 00
Daniel Sullivan	10 00

Total, as per item No. 24 of ex-
penses

\$917 00

Balance unexpended, transferred
into treasury

\$83 00

Land Damages.

Appropriation	\$1,600 00	
Transferred from appropriation for drains and culverts	550 00	
		\$2,150 00
T. W. Carter, land to widen Murray street	\$716 38	
Emily C. Griffin, land to widen Murray street	95 58	
Roxanna Cook Stone, land to widen Elliott street	250 00	
<i>Am'ts carried for'd,</i>	\$1,061 96	\$2,150 00

<i>Amounts brought forward,</i>	\$1,061 96	\$2,150 00
A. R. Mitchell, land to widen Walnut street	100 00	
Boston & Albany Railroad, for land to round corners Davis street	25 00	
William E. Coffin, land to widen Bellevue street	942 50	
Total, as per item No. 26 of ex- penses		\$2,129 46
Balance unexpended, transferred into treasury		\$20 54

Memorial Day.

Appropriation	\$400 00
Charles Ward Post No. 62, G. A. R.	\$400 00
Total, as per item No. 27 of ex- penses	\$400 00

Miscellaneous Expenses.

Appropriation	\$10,000 00
Additional appropriation by order of City Council	5,000 00
	\$15,000 00
Transferred to appropriation for gravel lands	300 00
	\$14,700 00
<i>Amount carried forward</i>	\$14,700 00

<i>Amount brought forward</i>	.	.	.	\$14,700 00
Water department, use of water, watering streets	.	.	.	\$2,380 03
Water department, use of water, watering troughs	.	.	.	800 00
Water department, use of water, drinking posts	.	.	.	105 00
Timothy Stuart, watering streets, Wards 1 and 7	.	.	.	821 25
William H. Mague, watering streets, Wards 3 and 4	.	.	.	810 00
Central Stables, watering streets, Ward 2	.	.	.	270 00
Thomas R Frost, watering streets, Ward 6	.	.	.	270 00
New England Telephone and Tel- egraph Co., rental of instru- ments and service	.	.	.	626 69
Edwin Rogers, for fire-alarm striker, Newton Highlands	.	.	.	700 00
Peter Thacher, legal services	.	.	.	268 84
William E. Coffin, land to widen Bellevue Street	.	.	.	541 25
Emily S. French, land to widen Centre Street	.	.	.	375 00
Proctor estate, for filling off New- tonville Avenue	.	.	.	500 00
Kate M. Nickerson, land on Insti- tution Avenue	.	.	.	202 80
William N. Bartholomew, land on Institution Avenue	.	.	.	180 80
<i>Amounts carried forward</i>	.	.	.	<hr/> \$8,851 66 <hr/> \$14,700 00

<i>Amounts brought forward</i> .	\$8,851 66	\$14,700 00
Sarah J. Gaffield, land on Murray Street	75 00	
Thomas Ellis, invalid tax title .	176 84	
James W. French, invalid tax title	27 64	
Amasa Crafts, invalid tax title .	245 56	
Heirs of David Damon, refund of taxes, taxes on land belonging to city	56 96	
S. A. Teulon, administrator, settlement for personal injuries to Dr. Teulon	400 00	
George F. Morgan, abstract of deeds for assessors	158 38	
Newton Athenæum, aid for reading-room	250 00	
W.S.Slocum, settlement of claims and legal expenses, in suits .	325 00	
W. F. and W. S. Slocum, legal services	10 00	
George E. Bridges, services, collecting facts of births	193 00	
George E. Bridges, services, registrar of voters	150 00	
Isaac F. Kingsbury, services, registrar of voters	150 00	
Richard T. Sullivan, services, registrar of voters	150 00	
George H. Bourne, services, registrar of voters	150 00	
<i>Amounts carried forward</i> , .	<hr/> \$11,370 04	<hr/> \$14,700 00

<i>Amount brought forward,</i>	\$11,370 04	\$14,700 00
George H. Pratt, printing and advertising	280 66	
Alfred Mudge & Son, printing voting lists, etc.	217 90	
Rand, Avery & Co., printing vot- ing lists, etc.	134 75	
Rockwell & Churchill, printing	27 50	
Fanning Printing Co., printing	13 50	
F. D. Graves, printing	15 37	
Rice & Drake, printing	2 95	
American Bank Note Co., altering plate, etc.	150 00	
M. C. Laffie, serving warrants, etc.	328 75	
R. M. Lucas, serving warrants, etc.	153 32	
E. C. Soule, chairman, amount paid for fire alarm box, and putting up the same	150 00	
Newton Graphic, printing and advertising	113 01	
Dr. James Utley, vaccinations	201 00	
Dr. Eben Thompson, vaccinations	3 50	
John A. Kenrick, Treas., for amount paid to E. D. Brooks and others for trimming trees, etc.	303 59	
I. F. Kingsbury, sundry cash ex- penses	123 14	
B. F. Otis, sundry cash expenses	90 83	
John A. Kenrick, sundry cash ex- penses	67 62	
<i>Amounts carried forward</i>	<hr/> \$13,747 43	<hr/> \$14,700 00

<i>Am'ts brought forward,</i>	\$13,747 43	700 00
A. S. Glover, sundry cash expenses	41 6	
Isaac Hagar, sundry cash expenses	19 98	
A. B. Potter, allowance for drainage -	175 00	
John C. Brimblecom, services in City Clerk's office	172 50	
George E. Bridges, extra services registration	50 00	
Nellie M. Heywood, services in Treasurer's office	50 00	
L. A. Richardson, services in Treasurer's office	6 00	
Drew, Allis & Co., advertising in Newton directory	75 00	
Henry Lemon, decorating City Hall	61 50	
Shreve, Crump & Low, invitations, etc., Grant Memorial	56 25	
H. A. Cook, Agt., music, Grant Memorial	50 00	
Charles Fred Crehore, damages to carriage, etc.	50 00	
Boston Safe Deposit and Trust Co., rent of box	40 00	
Edwin Holman, insurance on books (library)	40 00	
Central Stables, carriages, Memorial day	72 00	
<i>Amounts carried forward</i> .	\$14,707 32	\$14,700 00

<i>Amounts brought forward</i>	\$14,707 32	\$14,700 00
Edwin Fewkes, bouquets, Memorial Day	26 00	
M. E. Conlan, services for City Solicitor	56 70	
J. M. W. Yerrinton, services for City Solicitor	51 25	
M. U. Adams, services in Newton Mills Case	50 00	
Samuel M. Jackson, use of horse and carriage in assessing taxes	80 00	
T. W. Carter, interest on award for land damage	85 25	
Waslburn & Moen, Manf. Co., wire, etc.	38 31	
J. D. F. Brooks, binding books .	33 50	
J. L. Fairbanks & Co., blank books	22 75	
Estate of A. Trowbridge, use of hall (elections)	25 00	
W. S. Richards, use of hall (elections)	5 00	
Nonantum Athenaeum, use of hall (elections)	5 00	
Charles H. Stacy, telegrams .	34 60	
Charles L. Bly, bells . . .	7 15	
A. J. Fiske & Co., tin boxes .	4 25	
C. H. Jenison, expressage .	4 25	
Stephen F. Cate, use of teams .	97 75	

<i>Amounts carried forward</i>	\$15,334 08	\$14,700 00
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<i>Amounts brought forward</i>	\$15,334 08	\$14,700 00
Daniels' Nonantum Stables, use of teams	75 00	
S. P. Whitman, use of teams	15 00	
Central Stables, use of teams	9 00	
S. L. Pratt, use of teams	9 00	
W. H. Mague, use of teams	8 00	
Charles G. Tinkham, use of teams	8 00	
William Weir, use of teams	8 00	
John Purcill, use of teams	7 00	
J. T. Hill, use of teams	5 75	
J. Frank Makee, use of teams	5 00	
George W. Bush, use of teams	2 00	
Adams Express Co., expressage	16 55	
Thomas Woodman, labor Mason schoolhouse hall	9 00	
A. H. Kimball, telephone attachment	6 00	
Little, Brown & Co., books	6 50	
E. Sinead & Co., repairing flag	4 15	
Commonwealth of Mass., one-fourth received for druggists licenses	4 00	
J. D. Wellington, cash paid for labor	3 60	
J. L. Randall, labor at Prospect schoolhouse hall	2 50	
H. H. Hunt, material and labor	47 19	
J. C. Farrar, material and labor	15 00	
C. S. Phillips, material and labor	11 45	
W. J. Henderson, material and labor	9 84	
<i>Amounts carried forward</i>	\$15,621 61	\$14,700 00

<i>Amounts brought forward</i> .	\$15,621 61	\$14,700 00
George Fuller, material and labor	9 33	
Higgins & Nickerson, material and labor	8 00	
The S. C. Ballot Box Co., material and labor	2 40	
A. R. Gay & Co., supplies .	88 50	
Joseph Lee, supplies . .	41 65	
Carroll W. Clark, supplies .	41 45	
G. D. Harvey, supplies . .	37 45	
Stephen F. Cate, making returns of deaths	13 25	
George W. Bush, making returns of deaths	11 50	
James McGourty, making returns of deaths	10 75	
W. H. Mague, making returns of deaths	9 75	
John A. Peck, making returns of deaths	8 00	
John Flood, making returns of death	7 00	
Harrington & Gregg, making returns of deaths	6 75	
Agatha Reade, making returns of deaths	75	
S. P. Whitman, making returns of deaths	50	
M. C. Laffie, ringing bell . .	8 00	
J. D. Wellington, ringing bell .	6 00	
<i>Amounts carried forward</i> -	<hr/> \$15,932 64	<hr/> \$14,700 00

<i>Amounts carried forward</i>	\$15,932 64	\$14,700 00
J. T. Thomason, ringing bell	6 00	
Thomas Woodman, ringing bell	6 00	
F. B. Sisson, ringing bell	6 00	
Charles A. Worth, ringing bell	6 00	
James H. Boit, ringing bell	6 00	
George W. Chamberlain, ringing bell	3 00	
W. A. Moore, ringing bell	3 00	
J. F. Frisbie, warden, Ward 1	10 00	
R. O. Evans, deputy warden, Ward 1	6 00	
S. C. Stevens, clerk, Ward 1	10 00	
G. R. Aston, deputy clerk, Ward 1	6 00	
Dexter Whipple, inspector, Ward 1	10 00	
E. L. Lemon, inspector, Ward 1	10 00	
George Lane, second, deputy inspector, Ward 1	6 00	
Michael Hurley, deputy inspector, Ward 1	6 00	
H. P. Dearborn, warden, Ward 2	10 00	
E. S. Farnsworth, deputy warden, Ward 2	6 00	
W. S. Higgins, clerk, Ward 2	10 00	
A. B. Tainter, deputy clerk, Ward 2	6 00	
L. H. Cranitch, inspector, Ward 2	10 00	
J. D. Billings, inspector, ward 2	10 00	
J. H. Williams, deputy inspector, Ward 2	6 00	
<i>Amounts carried forward</i>	\$16,090 64	\$14,700 00

<i>Amounts brought forward</i>	\$16,090 64	\$14,700 00
J. C. Whitney, deputy inspector, Ward 2	6 00	
George H. Ingraham, warden, Ward 3	10 00	
F. E. Hunter, deputy warden, Ward 3	6 00	
J. H. Reed, clerk, Ward 3	5 00	
J. A. Gaw, deputy clerk, Ward 3	6 00	
H. C. Wood, inspector, Ward 3	10 00	
C. F. Tuttle, inspector, Ward 3	10 00	
A. R. Coe, deputy inspector, Ward 3	6 00	
F. H. Humphrey, deputy in- spector, Ward 3	6 00	
J. H. Fitz, clerk pro tem., Ward 3	5 00	
G. E. Johnson, warden, Ward 4	10 00	
Bernard Early, deputy warden, Ward 4	6 00	
H. H. Mather, clerk, Ward 4	10 00	
G. L. Snow, deputy clerk, Ward 4	6 00	
Henry Washburn, inspector, Ward 4	10 00	
E. E. Moody, inspector, Ward 4	5 00	
W. A. Leonard, deputy inspector, Ward 4	6 00	
G. W. Chamberlain, deputy in- spector, Ward 4	2 00	
John T. Moody, inspector pro tem., Ward 4	2 00	
A. J. Grover, warden, Ward 5	10 00	
<i>Amounts carried forward</i>	\$16,227 64	\$14,700 00

<i>Am'ts brought for'd,</i>	\$16,227 64	\$14,700 00
J. W. Howe, deputy warden, Ward 5	6 00	
C. H. Hale, clerk, Ward 5	10 00	
G. H. Osborne, deputy clerk, Ward 5	6 00	
W. T. Logan, inspector, Ward 5 .	10 00	
John Brundrett, inspector, Ward 5	10 00	
J. P. Tenney, deputy inspector, Ward 5	6 00	
P. T. Begley, deputy inspector, Ward 5	3 00	
Daniel Kelliher, inspector pro tem., Ward 5	3 00	
Samuel M. Jackson, warden, Ward 6	10 00	
J. D. Greene, deputy warden, Ward 6	4 00	
R. R. Bishop, Jr., clerk, Ward 6 .	10 00	
J. W. Hill, inspector, Ward 6 .	4 00	
H. H. Read, inspector, Ward 6 .	10 00	
B. W. Crocker, deputy inspector, Ward 6	6 00	
J. E. Warner, warden, Ward 7 .	10 00	
C. W. Bassett, deputy warden, Ward 7	3 00	
Moses Clark, Jr., clerk, Ward 7 .	10 00	
H. C. Daniels, deputy clerk, Ward 7	4 00	
G. S. Woolbridge, inspector, Ward 7	10 00	
<i>Amounts carried forward,</i>	\$16,362 64	\$14,700 00

<i>Amounts brought forward,</i>	\$16,362 64	\$14,700 00
G. W. Lamson, inspector, Ward 7	10 00	
Newton Postoffice, rent of box	1 00	
B. B. Vassall, supplies	1 00	
Boston and Albany Railroad, freight	25	
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Total, as per item No. 28 of ex- penses		\$16,374 89
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Balance, overdrawn, transferred into treasury		\$1,674 89

Newton Free Library.

Appropriation		\$7,500 00
Hannah P. James, services, li- brarian	\$1,000 00	
Elizabeth P. Thurston, services as assistant librarian	333 33	
Etta P. Cleveland, services as as- sistant librarian	400 00	
Louise J. Smallwood, services as assistant librarian	400 00	
Millie E. Michaels, services as as- sistant librarian	400 0	
James J. Tower, services, janitor	800 00	
W. B. Clark and Carruth, books	1,205 39	
Cupples, Upham & Co., books	5 10	
A. L. Bancroft & Co., books	58 50	
D. Appleton & Co., books	48 60	
Charles Scribner's Sons, books	28 50	
S. C. Casino, books	18 00	
Dodd, Mead & Co., books	12 00	
<hr/>		
<i>Amounts carried forward</i>	\$4,709 42	\$7,500 00

<i>Amounts brought forward</i>	\$4,709 42	\$7,500 00
Lockwood, Brooks & Co., books	8 75	
Henry C. Nash, books	5 40	
Mason & Fowler, books	4 50	
W. H. Beechler, books	3 00	
Estes & Lauriat, books	1 50	
H. D. Noyes & Co., subscriptions	176 10	
Nickelson & Co., subscriptions	12 00	
Boston Daily Advertiser, sub- scriptions	12 00	
The Tribune Co., subscriptions	12 00	
The Evening Post, subscriptions	9 00	
Post Publishing Co., subscriptions	9 00	
George W. Armstrong, subscrip- tions	8 25	
Globe Printing Co., subscriptions	8 25	
The Springfield Republican, sub- scriptions	7 00	
The World, subscriptions	6 56	
The Sun, subscriptions	6 00	
The Press Co., subscriptions	6 00	
Alta California Publishing Co., subscriptions	6 00	
The Commercial Gazette, sub- scriptions	12 60	
The Tribune Association, sub- scriptions	8 50	
New York Herald, subscriptions	6 00	
R. M. Pulsifer & Co., subscrip- scriptions	6 00	
Gazette Printing Co., subscription	6 00	
<i>Amounts carried forward</i>	\$5,049 83	\$7,500 00

<i>Amounts brought forward,</i> .	\$5,049 83	\$7,500 00
Baltimore American, subscription	6 00	
Journal Newspaper Co., subscrip- tion	6 00	
Globe Newspaper Co., subscription	6 00	
American Arch and Building News Co., subscription .	6 00	
The Publisher of Science, sub- scription	5 30	
H. G. Parker, subscription .	3 20	
Bibliothica Sacra, subscription	3 00	
Houghton, Mifflin & Co., sub- scription	3 00	
Journal of Comparative Medicine and Surgery, subscription .	2 00	
Every Other Saturday Publishing Co., subscriptions . . .	2 00	
E. H. Haynes & Co., subscription	2 00	
J. H. H. McNamee, binding books	127 55	
N. & W. Gas Light Co., gas .	529 56	
Albert Brackett, coal	241 22	
New England Telegraph and Tele- phone Co., rental, etc. . .	40 00	
Neil McGinnis, expressage of books	900 00	
C. H. Hurd, expressage . . .	6 75	
E. F. Smallwood, cards, etc. .	55 00	
George H. Pratt, printing and advertising	38 75	
F. D. Graves, printing . . .	15 00	
The Newton Graphic, printing	12 37	
<i>Amounts carried forward</i> .	<hr/> \$7,060 23	<hr/> \$7,500 00

<i>Amounts brought forward</i> .	\$7,060 23	\$7,500 00
Howard Bros., ice . . .	30 00	
A. Erickson, awning . . .	25 00	
Oscar F. Howe, baskets . . .	13 50	
Mellish, Byfield & Co., oak stools	12 00	
Newton Cemetery Corporation, ashes	9 00	
W. C. Gaudalet, agency . . .	50 00	
E. E. Moody, agency . . .	40 75	
J. J. Peck, agency . . .	40 00	
B. Billings, agency . . .	40 00	
A. Brush, agency . . .	40 00	
A. E. Brickett, agency . . .	24 00	
C. W. Kinder, agency . . .	20 00	
Library Bureau, supplies . . .	28 55	
Smith & Byram, supplies . . .	14 00	
The Publishers Weekly, supplies	13 60	
S. O. Thayer & Co., supplies . .	8 00	
A. J. Wilkinson & Co., supplies	7 50	
Thayer & Stiles, supplies . . .	4 20	
Blair & Hallett, supplies . . .	3 25	
N. W. Turner & Co., material and labor	6 40	
Timothy Stuart, material and labor	2 00	
Russell Freeman, labor . . .	2 00	
Worthley, Downes & Co., rubber blankets	6 00	
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Total, as per item No. 29 of expenses		\$7,499 98
		<hr/>
Balance unexpended, transferred into treasury		02

Newton Centre (Rice) Schoolhouse.

Total expenditure to Dec. 31, 1884		\$12,400 00
Henry F. Ross, amount paid on contract for building . . .	\$5,123 50	
Walworth Manufacturing Com- pany, amount paid on con- tract for heating apparatus .	1,717 68	
T. J. Hartnett, amount paid on contract for plumbing . . .	560 30	
Allen & Kenway, services as arch- itects	463 93	
Burditt & Williams, supplies .	237 60	
Patrick Brennan, grading . .	200 00	
Simpson Bros., concreting . .	148 69	
Woods, Page & Co., four wood mantels	141 00	
J. A. Swasey, blackboards . .	132 60	
William J. Sullivan, material and labor	80 00	
Seth W. Fuller & Holtzer, bells and tubes	75 00	
Albert Brackett, coal and wood .	74 31	
C. A. Wellington & Co., supplies	49 71	
Water department, material and labor	12 94	
Enoch Robinson, supplies . .	2 37	
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Total, as per item No. 30 of ex- penses		\$9,019 63
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Total expenditure		\$21,419 63

Nonantum (Eliot) Schoolhouse.

Total expenditure to December		
31, 1884		\$16,802 20
Highland Foundry Co., furnace .	\$300 00	
Daniel Murphy, manure	23 00	
Nonantum Worsted Co., manure .	10 00	
Joseph Breck & Sons, grass-seed .	4 55	
George G. Edwards, supplies . .	3 10	
Braman, Dow & Co., material and labor	240 00	
James Dunn, material and labor .	50 79	
T. J. Hartnett, material and labor	19 60	
Arthur Glines, material and labor .	14 00	
Timothy Stuart, labor, men and teams	130 87	
Thomas Benson, labor	48 00	
Patrick Benson, labor	47 00	
Fred Chadwick, labor	38 50	
Frank Benson, labor	15 75	
Total, as per item No. 31 of expenses		\$945 16
Total expenditure		\$17,747 36

Police Department.

Appropriation	\$19,500 00
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Regular Police Officers.

Daniel M. Hammond, City Marshal	\$1,500 00	
Charles F. Richardson, Sergeant of Police	1,095 00	
<i>Amounts carried forward</i>	\$2,595 00	\$19,500 00

<i>Amount brought forward,</i>	.	\$2,595 00	\$19,500 00
George E. F. Baker, patrolman	.	897 42	
N. F. Bosworth, patrolman	.	961 60	
John W. Conroy, Jr., patrolman		731 55	
W. G. Bosworth, patrolman	.	895 10	
Charles E. Davis, patrolman	.	997 23	
William C. Emerson, patrolman	.	958 87	
Charles O. Davis, patrolman	.	980 78	
F. B. Fletcher, patrolman	.	980 79	
Ambrose M. Fuller, patrolman	.	741 80	
Robert S. Harrison, patrolman	.	989 00	
James D. Henthorn, patrolman	.	994 48	
Edson C. Holmes, patrolman	.	997 24	
Charles P. Huestis, patrolman	.	1,000 00	
Rufus H. Moulton, patrolman	.	895 10	
John Purcell, patrolman	.	962 48	
John Ryan, patrolman	.	1,000 00	
		<hr/>	
		\$17,578 44	

Special Police Officers.

B. F. Burke	.	.	.	.	13 70
Thomas C. Clay	.	.	.	.	230 16
Martin C. Laffie	.	.	.	.	137 00
John W. Quilty	.	.	.	.	392 95
					<hr/>
					\$18,352 25

Incidental Expenses.

Stephen F. Cate, board of horse and use of teams	.	.	.	.	306 47
D. M. Hammond, meals for pris- oners, etc.	.	.	.	.	92 45
A. D. Colby, meals for prisoners, etc.	.	.	.	.	32 75
N. & W. Gaslight Co., gas	.				76 98
					<hr/>

Amounts carried forward . \$18,860 90 \$19,500 00

<i>Amounts brought forward</i>	\$18,860 90	\$19,500 00
Water Department, for use of		
water	55 00	
Albert Brackett, for coal . . .	33 99	
William Weir, use of teams . . .	90 50	
Central Stables, use of teams . .	7 50	
Nonantum stables, use of teams .	4 00	
A. F. Harrington, use of teams . .	4 00	
W. H. Mague, use of teams . . .	2 50	
S. P. Whitman, use of teams . . .	2 25	
H. A. Speare, use of teams . . .	2 00	
Fitzgerald Bros., use of teams . .	2 00	
C. G. Tinkham, use of teams . . .	5 50	
John Purcell, conveyance of		
prisoners	81 25	
C. O. Davis, conveyance of pris-		
oners	39 50	
N. F. Bosworth, conveyance of		
prisoners	33 96	
A. M. Fuller, conveyance of pris-		
oners	26 50	
R. H. Moulton, conveyance of		
prisoners	7 50	
W. G. Bosworth, conveyance of		
prisoners	6 50	
R. S. Harrison, conveyance of		
prisoners	5 00	
F. B. Fletcher, conveyance of		
prisoners	2 09	
Paine's Furniture Co., for lounge	43 00	
J. S. Paine, for lounge	25 00	
<i>Amounts carried forward</i>	\$19,340 44	\$19,500 00

<i>Amounts brought forward</i>	\$19,340 44	\$19,500 00
P. A. McVicker, material and labor	23 95	
R. Arnold, material and labor	8 75	
Clark Manufacturing Co., material and labor	3 65	
F. Peck, services in City Marshal's office	17 00	
H. A. Winship, belts, etc.	13 50	
C. A. Twitchell & Co., badges	10 00	
J. R. McLaughlin, care of sick horse	10 00	
E. C. Holmes, cash expenses	9 83	
C. F. Richardson, railroad tickets	9 75	
John E. Parsons, fourteen short clubs	7 00	
Dr. J. F. Frisbie, medical attendance	5 00	
C. H. Jenison, expressage	4 45	
H. Eugene Fleming, supplies	5 35	
S. B. Maxwell, washing blankets	4 00	
Mrs. A. M. Chick, washing blankets	3 50	
E. W. Hodgson, material and labor	3 00	
Sundry small bills	19 00	
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Total, as per item No. 32 of expenses		\$19,498 17
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Balance unexpended, transferred into treasury		\$1 83

Poor Out of Almshouse.

Appropriation		\$8,000 00
Nathan Mosman, services as city almoner and clerk of Board of Overseers	\$700 00	
Dexter Whipple, services, over- seer, Ward 1	50 00	
E. S. Colton, services, overseer, Ward 2	50 00	
G. H. Ingraham, services, over- seer, Ward 3	50 00	
Nathan Mosman, services, over- seer, Ward 4	50 00	
H. C. Hoyt, services, overseer, Ward 5	50 00	
George Warren, services, over- seer, Ward 6	50 00	
John Warner, services, overseer, Ward 7	50 00	
Nathan Mosman, amount paid to sundry persons	288 30	
Worcester Lunatic Hospital, care of sundry persons	1,248 85	
Northampton Lunatic Hospital, care of sundry persons	185 73	
Danvers Lunatic Hospital, care of sundry persons	114 35	
Asylum for the Chronic Insane, care of sundry persons	501 46	
Commonwealth of Massachusetts, care of sundry persons	258 02	
<i>Amounts carried forward</i>	<u>\$3,646 71</u>	<u>\$8,000 00</u>

<i>Amounts brought forward,</i> .	\$3,646 71	\$8,000 00
City of Boston, partial support of poor	277 56	
City of Malden, partial support of poor	128 37	
City of Lawrence, partial support of poor	52 00	
Town of Foxboro, partial support of poor	94 25	
Town of Sherborn, partial sup- port of poor	22 00	
Town of Royalston, partial sup- port of poor	18 48	
Town of Paxton, partial support of poor	6 96	
Dr. J. H. Bodge, medical attend- ance	56 00	
Dr. Eben Thompson, medical at- tendance	54 00	
Dr. F. L. Thayer, medical at- tendance	33 00	
Dr. F. E. Porter, medical at- tendance	31 00	
Dr. F. E. Crockett, medical at- tendance	30 50	
Dr. J. Blodgett, medical attend- ance	25 00	
Dr. H. B. Stoddard, medical at- tendance	20 50	
Dr. Albert Nott, medical attend- ance	13 00	
<i>Amounts carried forward</i> .	<hr/> \$4,509 33	<hr/> \$8,000 00

<i>Amounts brought forward</i> .	\$4,509 33	\$8,000 00
Dr. James Uteley, medical attendance	10 00	
Dr. F. W. Webber, medical attendance	6 00	
Dr. W. H. Hildreth, medical attendance	4 00	
Dr. E. P. Scales, medical attendance	3 00	
Drs. O. E. & W. O. Hunt, medical attendance	3 00	
Dr. E. N. Kingsbury, medical attendance	2 75	
Dr. D. E. Baker, medical attendance	00	
Aug. Williams, prescriptions .	57 43	
Geo. H. Ingraham, prescriptions .	29 50	
W. C. Gaudelet, prescriptions .	14 15	
C. A. Seabury, prescriptions .	10 13	
C. Sargent Bird, prescriptions .	3 50	
A. Brush, prescriptions . . .	3 05	
Frank W. Freeman, prescriptions .	3 00	
J. H. Woolrich, prescriptions .	2 45	
James McGourty, funeral expenses	46 50	
Mrs. B. F. Otis, funeral expenses, J. Brown	10 00	
W. H. Mague, funeral expenses .	10 00	
Newton Cemetery Corporation, interments	20 00	
John Flood, interments . . .	6 50	
<i>Amounts carried forward</i> .	\$4,756 29	\$8,000 00

<i>Amount brought forward,</i> .	\$4,756 29	\$8,000 00
Mrs. William Petigrew, funeral expenses, Miss Jackson .	15 00	
Miss Alice Williston, board of Sullivan children . . .	88 00	
Roxbury Home, etc., board of Miss Crawley	72 00	
George A. Merry, board, etc., of Miss Eva Nichols . . .	71 85	
Childrens' Hospital, board of Annie Finnissey	29 71	
Mrs. Agnes Houghton, board of W. H. Lohnas	9 00	
William Colter, for board of Fennessey children	5 00	
Mrs. M. C. Morrill, board of Geo. Bowen	4 75	
W. O. Hunt, rent of house for Mrs. Denning	97 00	
B. Farrell, rent of house for Mrs. Kennedy	96 00	
J. R. Farnum, rent of house for Mrs. Pitts	80 00	
B. F. Houghton, rent of house for Mrs. Cazmay	54 00	
Mrs. William Collins, rent of house for Mrs. Jeffers . . .	48 00	
T. J. Hartnett, rent of house for Mrs. Chick	46 00	
Michael Ryan, rent of house for Mrs. Costello	32 50	
<i>Amounts carried forward</i> .	<hr/> \$5,505 10	<hr/> \$8,000 00

<i>Amounts brought forward</i>	.	\$5,505 10	\$8,000 00
Thomas Mullen, rent of house for			
Mrs. McGue	. . .	30 00	
Mrs. Chick, rent of house for			
Mrs. Nutting	. . .	19 00	
O. F. Lucas, rent of house for			
Mr. Brown	. . .	12 50	
John Grace, rent of house for			
M. Gerry	. . .	10 00	
W. O. Knapp & Co., groceries	.	239 25	
C. Strout & Sons, groceries	.	210 50	
H. E. Woodberry, groceries	.	204 97	
A. A. Savage, groceries	. .	201 80	
J. B. Murphy, groceries	. .	167 00	
H. A. Sherman, groceries	. .	99 63	
H. W. Fanning & Son, groceries.		92 01	
H. B. Coffin, groceries	. .	74 95	
W. P. Holden, groceries	. .	68 90	
I. R. Stevens, groceries	. .	53 01	
E. Vickers, groceries	. .	49 75	
B. F. Houghton, groceries	. .	47 50	
George H. Adams, groceries	.	30 50	
Ford's Boston Branch, groceries		24 00	
G. P. Atkins, groceries	. .	23 00	
William Lowe, groceries	. .	20 45	
C. C. Cook, groceries	. .	19 76	
B. B. Vassal, groceries	. .	17 00	
M. J. Duane, groceries	. .	12 08	
Fred L. Cook, groceries	. .	9 70	
Mann & Eaton, groceries	. .	4 44	
Alonzo Whitney, groceries	.	4 00	
J. W. Davis & Co., groceries	.	2 00	
<i>Amounts carried forward</i>		\$7,252 80	\$8,000 00

<i>Amounts brought forward</i>	.	\$7,252 80	\$8,000 00
Albert Brackett, fuel	. .	340 87	
C. F. Eddy & Co., fuel	. .	193 52	
Alms-house Department, fuel	. .	164 75	
J. W. Hill, fuel	. . .	120 17	
Hills, Bullens & Co., fuel	. .	107 55	
James Nickelson, fuel	. .	105 88	
George Warren & Co., fuel	. .	31 35	
Daniel Warren, fuel	. . .	13 00	
George W. Bush, use of teams	. .	22 50	
S. L. Pratt, use of teams	. .	10 00	
Nonantum Stables, use of teams	. .	10 00	
Charles G. Tinkham, use of teams . . . . .	. . . . .	15 00	
William Weirs, use of teams	. .	8 00	
S. F. Cate, use of teams	. .	2 00	
George H. Pratt, blank books	. .	15 50	
L. A. Hall, for milk	. . .	10 13	
J. Clayton, for milk	. . .	7 22	
Everett E. Moody, supplies	. .	15 47	
G. W. Gill & Co., supplies	. .	14 25	
C. G. Phillips, supplies	. .	5 00	
George Barrows, shoes	. .	4 75	
Otis Bros., shoes	. . .	2 75	
Edward Fisher, provisions	. .	4 83	
Charles E. Scammon, provisions	. .	2 09	
J. J. McLaughlin, provisions	. .	2 07	
F. M. Dutch, provisions	. .	2 07	
S. Nay, provisions	. . .	2 00	
Sundry small bills	. . .	14 63	

Total, as per item No. 33 of expenses . . . \$8,500 15

Balance, overdrawn, transferred into treasury . . . \$500 15

Public Property.

Appropriation	\$10,000 00	
Additional appropriation by order of City Council	760 00	
	<hr/>	\$10,760 00
Simpson Bros., concreting	\$614 31	
Highland Foundry Co., furnaces, etc.	706 80	
Walker & Pratt, Manf. Co., fur- naces	404 95	
First Baptist Society, use of chapel, for school in Thomp- sonville, for 1885	150 00	
Joel Goldthwait & Co., carpets, etc.	220 87	
John and James Dobson, carpets, etc.	129 93	
J. L. Randall, care of Prospect schoolhouse hall, etc.	146 50	
Stephen Holmes, material and labor	855 80	
Charles A. Hill, material and labor	664 00	
C. A. Purdy, material and labor	570 57	
Isaac Smith, material and labor	432 72	
W. A. Fogwill, material and labor	317 69	
William E. Porter, material and labor	290 30	
Lee K. Allen & Co., material and labor	265 30	
	<hr/>	
<i>Amounts carried forward</i>	\$5,769 74	\$10,760 00

<i>Amounts brought forward</i> .	\$5,769 74	\$10,760 00
J. M. Briggs, material and labor	258 00	
James Dunn, material and labor	257 16	
C. Keiser, material and labor .	256 17	
George B. Randall, material and labor	255 00	
Cunningham Iron Works Co., material and labor . . .	244 67	
J. O. Evans Sons', material and labor	243 80	
John Farquhars Sons', material and labor	231 08	
Higgins & Nickerson, material and labor	213 45	
O. B. Leavitt, material and labor	164 32	
J. C. Farrar, material and labor .	164 14	
Patrick Brennan, material and labor	164 00	
T. J. Hartnett, material and labor	163 35	
S. D. Garey, material and labor .	58 80	
Charles Scott, material and labor	144 27	
F. H. Humphrey, material and labor	128 95	
H. H. Hunt, material and labor .	106 80	
J. E. Trowbridge, material and labor	105 81	
L. A. Ross, material and labor .	94 75	
A. W. Joslyn, material and labor	94 45	
Milo Lucas, material and labor .	93 35	
Arthur Muldoon, material and labor	91 60	
<i>Amounts carried forward</i> .	<hr/> \$9,403 66	<hr/> \$10,760 00

<i>Am'ts brought for'd,</i>	\$9,403 66	\$10,760 00
R. J. Morrissey, material and labor	86 92	
Sidney G. Steeves, material and labor	84 28	
William Bemis, material and labor	82 00	
H. F. Wellington, material and labor	81 23	
C. S. Phillips, material and labor	76 67	
Joseph W. Griggs, material and labor	76 60	
A. W. Snow, material and labor	75 72	
L. A. Gammons, material and labor	73 50	
Walworth Manf. Co., material and labor	58 82	
John E. Coleman, material and labor	51 24	
John Cain, material and labor .	50 00	
W. F. Soule, material and labor	45 55	
M. C. Higgins, material and labor	40 20	
S. K. MacLeod, material and labor	38 00	
H. H. Miles, material and labor .	35 21	
E. F. Hamblin, material and labor	33 38	
W. J. Maguire, material and labor	30 70	
John Lyons, material and labor .	30 25	

Amounts carried forward . \$10,453 93 \$10,760 00

<i>Amounts brought forward</i> .	\$10,453 93	\$10,760 00
W. B. Alexander, material and labor	29 09	
J. D. Billings, material and labor	29 34	
Edward Pike, material and labor	27 48	
W. J. Wilson, material and labor	18 90	
Cranitch and Horrigan, material and labor	17 35	
D. O. Driscoll, material and labor	13 35	
Water department, material and labor	13 24	
Moses Pond & Co., material and labor	12 60	
R. O. Evans, material and labor .	11 15	
F. T. Burgess, material and labor	11 00	
W. P. Leavitt, material and labor	10 65	
Murray & Farrell, material and labor	10 55	
Kendall & Roberts, material and labor	9 45	
John S. Sumner, material and labor	9 09	
W. F. Grace, material and labor .	8 00	
Thomas Belger, material and labor	5 98	
C. A. Cole, material and labor .	5 00	
A. H. Adams, material and labor	4 60	
Purdy & White, material and labor	4 00	
Adam Beck, material and labor .	3 84	
<i>Amounts carried forward</i> .	<hr/> \$10,708 59	<hr/> \$10,760 00

<i>Amounts brought forward,</i>	.	\$10,708 59	\$10,760 00
George Williams, material and labor	. . . . .	3 60	
James Dorney, material and labor	. . . . .	3 40	
J. F. Washburn, material and labor	. . . . .	3 00	
J. U. Kimball, material and labor		2 50	
Mrs. N. A. Armstrong, material and labor	. . . . .	2 00	
George F. Meacham, services as architect	. . . . .	75 00	
W. P. Wentworth, services as architect	. . . . .	30 00	
J. F. Starkweather, papering assessor's room	. . . . .	29 20	
N. and W. Gaslight Co., gas		28 58	
E. L. & F. S. Rollins, window shades, etc.	. . . . .	24 50	
C. W. Robinson, wall paper		20 03	
Timothy Stuart, labor, men and teams	. . . . .	10 75	
Newton Odorless Excavating Co., cleaning cess-pools	. . . . .	22 50	
Johnson & Keyes, expressage		9 10	
Marsten & Wells, flag	. . . . .	9 00	
Chelmsford Foundry Co., iron hitching-posts, etc.	. . . . .	8 25	
Central Stables, use of teams		8 00	
S. F. Cate, use of teams	. . . . .	4 00	
F. Murphy, hose	. . . . .	7 50	
S. P. Whitman, rent of stalls		5 00	
<i>Amounts carried forward</i>	.	\$11,014 40	\$10,760 00

<i>Amounts brought forward</i> .	\$11,014 50	\$10,760 00
J. F. C. Hyde, insurance premium	4 50	
The Elastic Lining Carpet Co., carpet lining	3 50	
W. S. Cargill, cash paid for material and labor	2 25	
Russell & Burke, supplies . .	51 42	
H. A. Sherman, supplies . .	38 54	
Waldo Bros., supplies . .	23 57	
S. O. Thayer & Co., supplies .	19 50	
The Fulton Iron Foundry Co., supplies	15 00	
Thayer & Stiles, supplies .	14 16	
Goldthwait Bros., supplies .	11 60	
Jordan, Marsh & Co., supplies .	8 78	
J. W. Bailey & Son, supplies .	8 40	
Barber Bros., supplies . .	4 20	
H. B. Coffin, supplies . .	3 75	
Greenwood & Co., supplies .	2 16	
Jacob Doldt, labor	17 50	
Thomas Burke, labor	9 63	
James Cummings, labor . .	7 88	
Martin Foley, labor	6 75	
Timothy Coffee, labor . . .	4 38	
James Humphrey, labor . . .	2 50	
M. W. Sands, brick	11 55	
James H. Boit, cleaning Hamilton Schoolhouse	8 00	
D. M. Hammond, repairing flag .	4 50	
Sundry small bills	16 71	
Total, as per item No. 34 of expenses		\$11,315 23
Balance overdrawn, transferred into treasury		\$555 23

Removal of Ashes.

Appropriation		\$3,500 00
John A. Kenrick, treasurer, labor, men and teams, highway department	\$3,496 50	
Timothy Stuart, labor, man and team	3 50	
<hr/>		
Total as per item No. 35 of expenses		\$3,500 00

Read Fund Income.

Paid to sundry parties, in accordance with the will of the late Charles A. Read, income received from the trustees, upon investments, as per item No. 36 of expenses	\$1,594 27
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Salaries.

Appropriation		\$14,400 00
J. Wesley Kimball, mayor	\$1,000 00	
Isaac F. Kingsbury, city clerk	2,000 00	
John A. Kenrick, city treasurer and collector of taxes	2,700 00	
Benjamin F. Otis, city auditor	2,000 00	
Winfield S. Slocum, city solicitor	1,000 00	
Isaac Hagar, chairman Board of Assessors	1,200 00	
Samuel M. Jackson, assessor	750 00	
Howard B. Coffin, assessor	750 00	
J. D. Wellington, city messenger	1,100 00	
J. D. Wellington, sealer of weights and measures	75 00	
<hr/>		
<i>Amounts carried forward</i>	\$12,575 00	\$14,400 00

<i>Amounts brought forward</i>	\$12,575 00	\$14,400 00
Moses Clark, Jr., deputy collector	1,200 00	
Albert S. Glover, clerk of Common Council	200 00	
Dexter Whipple, assistant assessor, Ward 1	52 00	
Elihu Smead, assistant assessor, Ward 2	96 00	
O. F. Lucas, assistant assessor, Ward 3	40 00	
Rufus Moulton, assistant assessor, Ward 4	80 00	
W. E. Clarke, assistant assessor, Ward 5	76 80	
George Warren, assistant assessor, Ward 6	86 00	
John Warner, assistant assessor, Ward 7	74 00	
Total, as per item No. 37 of expenses		<u>\$14,479 80</u>
Balance, overdrawn, transferred into treasury		<u>\$79 80</u>

SCHOOLS.

General Appropriation, Educational Department.

General appropriation for schools	\$95,650 00
Received from dog tax, by order of City Council	1,841 45
<i>Amount carried forward,</i>	<u>\$97,491 45</u>

<i>Amount brought forward,</i>	.	\$97,491 45	
Transferred to school			
incidentals	.	\$4,311 02	
Transferred to con-			
veyance of pupils		250 00	
Transferred to even-			
ing schools	.	167 54	
		<hr/>	
		\$4,728 56	
		<hr/>	
			\$92,762 89

EXPENDITURES IN DETAIL.

Thomas Emerson, superintendent	\$2,590 00	
Isaac Hagar, secretary School		
Board	300 00	
	<hr/>	
	\$2,890 00	

High School.

Edward H. Cutler, head master .	\$2,800 00	
Ezra W. Sampson, master . .	2,085 00	
S. Warren Davis, assistant master	1,600 00	
Caroline Spear, assistant . .	1,000 00	
S. Alice Worcester, assistant .	1,000 00	
M. Abby Smith, assistant . .	1,000 00	
Maybel P. Davis, assistant . .	1,000 00	
Evelyn Rich, assistant . .	1,000 00	
S. Alice Ranlett, assistant . .	918 75	
Lida P. Underhill, assistant .	918 75	
	<hr/>	

Amounts carried forward . \$16,212 50 \$92,762 89

Amounts brought forward . \$16,212 50 \$92,762 98

Special Teachers.

Adeline V. Pond, drawing and writing	\$800 00	
Jennie E. Ireson, calisthenics and elocution	500 00	
Horace M. Walton, music . .	450 00	
J. P. B. Fiske, military drill .	150 00	
Ellen L. Bond, sewing . .	450 00	
Julia Grant, sewing . . .	450 00	
J. P. B. Fiske, expenses on account of military drill . .	50 00	
	<hr/>	
	\$19,062 50	

Mason School.

Albert L. Harwood, master .	1,900 00	
Della E. Dodge, head assistant .	468 75	
Della E. Noyes, head assistant .	168 75	
Ellen L. Baker, head assistant .	56 25	
Ellen L. Baker, assistant . .	566 25	
Maria F. Wood, assistant . .	600 00	
Myra A. Wilson, assistant . .	375 00	
Margaret Martin, assistant .	375 00	
Ellen M. Cook, assistant . .	375 00	
Mary Tenney, assistant . .	495 00	
Annie E. Bancroft, assistant .	343 75	
Fannie E. Longfellow, assistant	312 50	
Mary E. Mason, assistant . .	187 50	
Roberta J. Hardie, assistant .	187 50	
Georgia P. Buckman, assistant .	78 75	
L. M. Newhall, assistant . .	67 50	
Abbie D. Esty, assistant . .	45 00	

<i>Amounts carried forward</i> .	<hr/>	<hr/>
	\$25,665 00	\$92,762 89

Amounts brought forward, . \$25,665 00 \$92,762 89

Rice School.

Myra A. Wilson, principal .	281 25
Margaret Martin, assistant .	225 00
Ellen L. Cook, assistant . .	225 00
Ida Merrill, assistant . .	82 50
	<hr/>
	\$26,478 75

Oak Hill School.

C. Howard Wilson, principal .	468 75
Louise N. Burbank, principal .	225 00
	<hr/>
	\$27,172 50

Thompsonville School.

Helen A. Davis, principal . .	693 75
	<hr/>
	\$27,866 25

Hyde School

George A. Moore, master . .	1,737 50
Charlotte E. Cameron, head as-	
sistant	750 00
Gertrude Blackmar, assistant .	600 00
Mabel R. Wetherbee, assistant .	90 00
Phebe E. Churchill, assistant .	600 00
Blanche J. Wetherbee, assistant	187 50
N. Grace Gould, assistant . .	443 75
	<hr/>

Amounts carried forward . \$32,275 00 \$92,762 89

Amounts brought forward . \$32,275 00 \$92,762 89

Prospect School.

Charles E. Hussey, master . .	1,537 50	
Martha L. Perkins, head assistant	750 00	
Ella F. Crooker, assistant . .	600 00	
Lucy A. Hayward, assistant . .	600 00	
Lizzie W. Everett, assistant . .	600 00	
Mary P. Fanning, assistant . .	600 00	
S. Jennie Freeman, substitute teacher	4 50	
Addie Scott, substitute teacher	2 25	
		<hr/>
		\$36,969 25

Hamilton School.

Luther E. Leland, master . .	\$1,900 00	
Anna G. Swain, head assistant . .	750 00	
Ellen M. Leland, assistant . .	600 00	
Sarah H. Jumper, assistant . .	600 00	

Williams School.

George L. Chandler, master . .	\$1,900 00	
Elizabeth A. Pinnock, head assist- ant	750 00	
Laura A. Saltonstall, assistant . .	600 00	
Hattie A. Ingraham, assistant . .	600 00	
Ann B. Smith, assistant . .	600 00	
Dora A. Allen, assistant . .	568 75	
Grace G. Billings, assistant . .	405 00	
Belle M. Hall, assistant . .	123 75	
		<hr/>

Amounts carried forward . \$46,366 75 \$92,762 89

Amounts brought forward, . \$46,366 75 \$92,762 89

Pierce School.

Levi F. Warren, master . .	\$1,900 00
Sarah A. Warren, head assistant	750 00
M. Alice Warren, assistant .	600 00
Eliza E. Simmons, assistant .	600 00
Helen S. Tolman, assistant .	343 75

Davis School.

Ella G. Bates, principal . .	750 00
Calista S. Wood, assistant . .	375 00
Susan E. Copeland, assistant .	375 60
Sarah E. Foster, assistant . .	600 00
Gertrude A. Elder, assistant .	243 75
Helen S. Tolman, assistant .	225 00
Belle Blodgett, assistant . .	45 00
Addie A. Jackson, assistant .	50 00

Franklin School.

Elizabeth F. Paddock, principal .	750 00
M. Isabel Jenkins, assistant .	375 00
Emma T. Weeks, assistant .	450 00
Margaret A. Mague, assistant .	600 00
Lulu M. Bagley, assistant .	225 00
Clara H. Thompson, assistant .	112 50
Gertrude A. Elder, assistant .	11 25

Shaw Street School.

Calista S. Wood, principal .	281 25
Susan E. Copeland, assistant .	225 00
Lizzie M. Jones, assistant . .	225 00

Amounts carried forward . \$56,479 25 \$92,762 89

Amounts brought forward . \$56,479 25 \$92,762 89

Adams School.

William A. Spinney, master	.	1,900	00
V. E. Hapgood, head assistant	.	750	00
Estella M. Haynes, assistant	.	600	00
Abbie J. Fiske, assistant	.	600	00
Angelia A. Smith, assistant	.	568	75
Clara H. Fox, assistant	.	60	00

Claffin School.

Herbert F. Sylvester, master	.	1,537	50
Lilla T. Wilder, head assistant	.	468	75
Lizzie Jones, assistant	.	375	00
Ellen M. Harrigan, assistant	.	518	75
Ellen S. Tewksbury, assistant	.	518	75
Carrie H. Rugg, assistant	.	281	25
Lydia A. Brierly, assistant	.	225	00

Eliot School.

George G. Edwards, master	.	1,737	50
H. Augusta Millard, head assistant	.	750	00
Louise W. Clelland, assistant	.	600	00
Abby J. Clark, assistant	.	375	00
Gertrude G. Tewksbury, assistant	.	225	00

Amounts carried forward . \$68,570 50 \$92,762 89

Amounts brought forward . \$68,570 50 \$92,762 89

Jackson School.

Eliza J. Lovely, principal . . .	656 25
Gertrude G. Tewksbury, assistant	375 00
Lottie E. Stearns, assistant	600 00
Gertrude H. Smead, assistant	343 75
Mary A. Wellington, assistant	552 50
Rose A. Harkins, assistant	187 50
Jeanette Cobb, assistant	197 50
Sarah Hopkinson, assistant	61 88
Kate Mellish, assistant	52 25
Ella M. Donkin, substitute	2 07

Bigelow School.

H. Chapin Sawin, master	1,900 00
Martha M. Bakeman, head assistant	750 00
Anna E. George, assistant	600 00
S. Louise Shelton, assistant	600 00
Augusta A. Lentell, assistant	600 00
Emily J. Dyer, assistant	568 75
Elizabeth Ayles, assistant	568 75
Jennie P. Morehouse, assistant	105 00
Mary R. Putney, assistant	87 50

Underwood School.

Charlotte E. Sewell, principal	750 00
Annie L. Wood, assistant	600 00
Josephine W. Littlefield, assistant	600 00
Ada L. Donkin, assistant	568 75

Amounts carried forward . \$79,897 95 \$92,762 89

Amounts brought forward . \$79,897 95 \$92,762 89

Lincoln School.

Nellie B. Rand, principal . \$600 00
Jennie L. Butler, substitute . 2 25

Janitors.

John Cummings, High . . 650 00
Thomas Woodman, Mason . 540 00
Albert C. Marston, Rice . . 214 44
John Mohr, Thompsonville . 96 00
Herman Esty, Oak Hill . . 96 00
Enoch Houston, Hyde . . 300 00
Joshua L. Randall, Prospect . 360 00
James H. Boit, Hamilton . 240 00
Martin Walsh, Williams . . 480 00
Thomas Johnson, Pierce and Da-
vis 480 00
Bridget Cox, Franklin . . 240 00
John Woody, Shaw Street . . 100 76
Mary Delaney, Adams . . 255 00
John Dorney, Claflin . . 360 00
James Dunn, Eliot . . . 360 00
Mary Walsh, Jackson . . 255 00
John McCamman, Bigelow, Un-
derwood and Lincoln . 696 00

Fuel.

Albert Brackett, coal . . \$3,597 86
C. F. Eddy & Co., coal and wood 2,238 75
Almshouse department, wood . 458 50
George Warren & Co., coal and
wood 38 00

Total, as per item No. 38 of expenses . \$92,556 51

Balance, unexpended, transferred into treasury \$206 38

School Incidentals.

Appropriation	\$9,500 00	
Transferred from general appro- priation for schools	4,311 02	
		<hr/>
		\$13,811 02
Knight, Adams & Co., books, sta- tionery, etc.	\$3,938 61	
A. C. Stockin, books	725 93	
William Ware & Co., books . .	517 87	
Ivison, Blakeman, Taylor & Co., books	271 79	
N. E. Agency, D. Appleton & Co., books	252 36	
Ginn, Heath & Co., books . .	144 90	
Ginn & Co., books	97 13	
T. W. Gilson, books	83 88	
E. S. Ritchie & Sons, books . .	69 72	
Lee & Shepard, books	45 25	
Harper Bros., books	40 21	
Leech, Sherwill & Sanborn . .	36 25	
Warren P. Adams, books	17 50	
F. M. Ambrose, books	12 25	
N. E. Publishing Co., books . .	10 80	
E. W. Sampson, books, etc. . .	45 80	
J. D. F. Brooks, binding books .	224 42	
E. H. Cutler, cash for covering books	6 92	
Ellen L. Bond, transportation and supplies for sewing school . .	47 94	
Julia Grant, transportation and supplies for sewing school . .	36 09	
	<hr/>	<hr/>
<i>Amounts carried forward . .</i>	<i>\$6,625 62</i>	<i>\$13,811 02</i>

<i>Amounts brought forward</i> .	\$6,625 62	\$13,811 02
Harris, Rogers & Co., wall maps	161 00	
Van Antwerp, Bragg & Co., wall maps	39 00	
A. G. Whitcomb, school furniture	1,942 38	
Water department, use of water .	856 00	
M. C. Laffie, services as truant officer	231 30	
J. D. Henthorn, services as truant officer	15 00	
C. O. Davis, service as truant officer	15 00	
John Ryan, service as truant officer	15 00	
C. P. Heustis, service as truant officer	15 00	
John Purcill, service as truant officer	15 00	
George H. Pratt, printing reports, etc.,	365 10	
Nathan Sawyer & Son, printing	3 50	
Newton Graphic, printing and postals	2 25	
Henry McElwain, blackboards .	197 61	
N. & W. Gas Light Co., gas .	147 37	
James Claffy, cleaning vaults .	122 00	
Newton Odorless Excavating Co., cleaning vaults	37 50	
Daniels Nonantum Stables, use of teams	55 50	
J. H. Daniels, diplomas . . .	97 60	
<i>Amounts carried forward</i> .	<hr/> \$10,958 73	<hr/> \$13,811 02

<i>Amounts brought forward</i> .	\$10,958 73	\$13,811 02
George Frost & Co., pencil sharp- eners	52 00	
A. J. Macomber, repairing clocks	78 50	
S. C. Ayres, repairing clocks .	19 00	
George E. Bridges, taking census of children, from 5 to 15 .	65 00	
Thomas Emerson, cash expenses	35 08	
Isaac Hagar, cash expenses .	27 29	
C. W. Burr, cash expenses, grad- uating class	20 00	
George H. Brown, tuning pianos	31 00	
C. H. Jenison, expressage . . .	41 20	
Bragdon & Son, expressage .	10 20	
Thomas L. Whiton, expressage	8 70	
Adams Express expressage .	4 60	
C. H. Hurd, expressage . . .	4 20	
Johnson & Keyes, expressage .	3 10	
Eames Express, expressage .	2 05	
W. D. Philbrick, cash for moving furniture	6 00	
F. B. Spear, conveyance of High School Battalion	46 00	
J. D. Wellington, labor at City Hall on account of High School	26 50	
Saunders Simms, cleaning guns	15 32	
A. Tonks, snap cartridges . . .	22 50	
Holland & Daniels, window shades etc.	77 10	
George T. Weston, repairing shades, etc.	3 75	

<i>Amounts carried forward</i> .	\$11,557 82	\$13,811 02
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<i>Amounts brought forward</i> .	\$11,557 82	\$13,811 02
J. A. Swasey, blackboard erasers	6 40	
Ward & Gay, blank books . . .	15 00	
G. M. D. Fernald, repairing bell fixtures	7 30	
Prang Educational Co., drawing models	5 85	
John McCamman, sharpening lawn mower, etc.	4 55	
E. S. Smilie, drawings . . .	7 80	
H. C. Nash, cyclopedia . . .	6 00	
P. Carbery, repairing wheelbar- row	5 00	
Higgins & Nickerson, material and labor	452 18	
Russell Freeman, material and labor	297 10	
Milo Lucas, material and labor .	169 26	
Cranitch & Horrigan, material and labor	115 23	
William B. Alexander, material and labor	94 88	
Sidney G. Steeves, material and labor	90 69	
H. F. Wellington, material and labor	53 25	
A. W. Snow, material and labor .	45 01	
W. L. Smith, material and labor	45 00	
Isaac Smith, material and labor .	44 33	
O. F. Lucas, material and labor .	44 03	
J. O. Evans' Sons, material and labor	42 45	
<i>Amounts carried forward</i> .	\$13,109 13	\$13,811 02

<i>Amounts brought forward,</i> .	\$13,109 13	\$13,811 02
C. S. Phillips, material and labor	36 63	
O. B. Leavitt, material and labor	29 65	
H. H. Hunt, material and labor .	28 70	
James Dunn, material and labor .	24 55	
Sidney P. Clark, material and labor	20 30	
John E. Coleman, material and labor	10 70	
R. O. Evans, material and labor .	10 40	
J. C. Farrar, material and labor .	10 25	
L. A. Gammons, material and labor	8 65	
Walworth Manf. Co., material and labor	5 95	
Seth W. Fuller & Holtez, material and labor	5 72	
T. J. Hartnett, material and labor	3 85	
Allen Jordan, material and labor	3 75	
Edward Pike, material and labor	2 75	
J. L. Randall, material and labor	2 40	
B. F. Doherty, expressage .	3 50	
William J. Holmes, expressage .	3 00	
J. P. B. Fiske, set of stencils .	3 50	
A. Amelia Smead, supplies for sewing school	3 25	
C. E. Hussey, rubbers, etc. .	3 13	
D. H. McWain, repairing chair .	2 90	
George H. Chambers, repairing clock	2 75	
James H. Boit, carting ashes .	2 50	

Amounts carried forward . \$13,337 91 \$13,811 02

<i>Amounts brought forward</i>	\$13,337 91	\$13,811 02
Murray & Farrell, clinker bars	2 30	
William Z. Ripley, blank reports	2 00	
S. F. Cate, use of teams	2 00	
Patrick Rouke, labor	6 00	
R. S. Shedd, labor	4 20	
William Bagley, labor	3 00	
Andrew Farrell, labor	2 00	
Peabody & Whitney, supplies	307 65	
S. O. Thayer & Co., supplies	59 00	
Thompson & Odell, supplies	19 50	
George H. Adams, supplies	12 45	
George S. Perry, supplies	6 20	
J. E. Trowbridge, supplies	6 05	
Thayer & Stiles, supplies	3 85	
I. R. Stevens, supplies	3 25	
Fred L. Cook, supplies	3 21	
C. W. Morehouse, supplies	3 20	
Boynton & Marsh, supplies	2 80	
H. S. Williams, supplies	2 69	
W. O. Knapp & Co., supplies	2 06	
H. M. Quimby, supplies	2 00	
James Murphy, supplies	2 00	
A. J. Fiske & Co., supplies	2 00	
Sundry small bills	13 70	

Total, as per item No. 39 of expenses . \$13,811 02

Sidewalks and Street Crossings.

Appropriation	\$6,500 00	
Additional appropriation, by order of City Council	1,500 00	
Transferred from appropriation for drains and culverts	1,000 00	
<i>Amount carried forward,</i>		\$9,000 00

<i>Amount brought forward</i>		\$9,000 00
John A. Kenrick, treasurer, labor, men and teams, highway de- partment	\$4,028 62	
Simpson Bros., concreting	4,734 39	
Noah Prescott, stone	188 99	
Boston & Albany Railroad, freight	48 00	
Total, as per item No. 40 of expenses . .		\$9,000 00

Sinking Fund—City Debt.

Appropriation	\$10,000 00	
Special appropriation by order of City Council from unappro- priated money in the City Treasury	10,800 00	
		\$20,800 00
Amount paid Commissioners of Sinking Fund, as per item No. 41 of expenses		\$20,800 00

Sinking Fund—Public Park Loan.

Amount paid the Commissioners of the Sinking Funds of the City of Newton, in accord- ance with section 5, chapter 44 of the Acts of 1882, being a portion of the amount re- ceived from sundry persons on account of betterments assessed for laying out and locating Farlow Park, as per item No. 42 of expenses		\$10,825 48
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Sinking Fund—Water Bonds.

Appropriation	\$17,000 00
Amount paid Commissioners of Sinking Fund, as per item No. 43 of expenses	\$17,000 00

State Aid.

Appropriation	\$1,000 00
William Watson	\$72 00
Joshua V. Ramsdell	54 00
Thomas Dolan	48 00
M. Hagarty	48 00
Eliza M. Jackson	48 00
Elizabeth Burke	48 00
Mary Duran	48 00
Anna C. Boyd	48 00
Sarah Fell	48 00
Catherine McAleer	48 00
Agnes Meirs	48 00
Bridget A. Wright	48 00
Thomas Dennon	48 00
Thomas Probert	48 00
Jane C. Poor	48 00
Elizabeth A. McCrillis	44 00
S. C. Spaulding	42 00
Mary A. Mann	32 00
Albert C. Dearborn	16 00
Malichi Watson	16 00
George Hutchinson	4 00

Total, as per item No. 44 of expenses . . . \$904 00

Balance, unexpended, transferred into treasury \$96 00

STREET-LIGHT DEPARTMENT.

Appropriation		\$20,750 00
Newton & Watertown Gas-Light Co., gas, and care of 790 street lamps	\$13,698 18	
Newton & Watertown Gas-Light Co., oil, and care of 523 street lamps	5,129 21	
Newton & Watertown Gas-Light Co., glass, repairs, etc.	486 25	
Newton & Watertown Gas-Light Co., painting posts and lan- terns	21 15	
Davis & Farnum Manf. Co., iron posts and frames	723 52	
Nathaniel Tufts, lanterns, etc.	367 00	
William J. Towne, material, care of lamp, etc.	11 30	
Thomas Hart, setting posts, etc.	45 60	
F. E. Bowker, setting posts	13 00	
S. F. Cate, use of teams	5 00	
John E. Coleman, repairs on lan- tern	2 00	
Charles H. Jenison, expressage	1 85	
<hr/>		
Total, as per item No. 45 of expenses		\$20,504 06
<hr/>		
Balance unexpended, transferred into treasury		\$245 94

Taxes, 1885.—State.

Amount assessed for State tax	\$24,135 00
Amount paid to State Treasurer, as per item No. 46 of expenses	24,135 00

Taxes, 1885.—County.

Amount assessed for County tax	\$18,302 55
Amount paid to County Treasurer, as per item No. 47 of expenses	18,302 55

Taxes, 1885.—National Bank.

Amounts paid to Commonwealth of Massachusetts for non-residents of Newton, National Bank shares, as per item No. 48 of expenses	\$954 47
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Taxes, 1885.—Corporation.

Amount paid to Commonwealth of Massachusetts, as per item No. 49 of expenses .	\$16 02
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Temporary Loans.—1885.

June 26, Paid Suffolk Savings Institution	\$70,000 00
July 6, Paid Boston Safe Deposit and Trust Company	35,000 00
Nov. 5, Paid New England Trust Company	100,000 00
Nov. 6, Paid New England Trust Company	100,000 00
Nov. 6, Paid Blake Bros. & Co.	50,000 00
Nov. 21, Paid Suffolk Savings Institution	40,000 00
Nov. 21, Paid North National Bank	15,000 00
Total, as per item No. 50 of expenses .	\$410,000 00

Use of Hydrants.

Appropriation	\$8,540 00
Water department	\$8,540 00
Total, as per item No. 51 of expenses .	\$8,540 00

Water Maintenance.

Appropriation		\$13,000 00
Albert S. Glover, services as registrar	\$1,800 00	
Albert S. Glover, sundry cash expenses	34 73	
H. N. Hyde, Jr., services as superintendent	1,500 00	
H. N. Hyde, Jr., sundry cash expenses	38 47	
J. C. Whitney, services as inspector	700 00	
Thomas Coughlin, services as engineer	1,200 00	
Pay-rolls of laborers	3,641 00	
Hills, Bullens & Co., coal	2,290 80	
Albert Brackett, coal	17 25	
Daniel Sullivan, wood	90 00	
James Nickelson, carting coal	102 11	
Hartford Steam Boiler Insurance Co., policy	45 00	
Timothy Stuart, carting pipe	39 80	
B. F. Barlow, blacksmithing	169 03	
Murray & Farrell, blacksmithing	47 50	
Keeler & Co., bookcase	100 00	
E. Smead & Co., grain	48 78	
Bradley, Hastings & Co., picks and shovels	86 00	
Leonard & Ellis, oil	61 88	
H. S. Macomber & Co., oil	25 55	
Merrian & Morgan Paraffine Co., oil	22 50	
<i>Amounts carried forward</i>	<hr/> \$12,060 40	\$13,000 00

<i>Amounts brought forward</i>	\$12,060 40	\$13,000 00
J. Stearns, manure	25 30	
George H. Pratt, printing, etc.	20 50	
Simpson Bros., concreting	17 06	
Chapman Valve Mfg. Co., valves, etc.	16 59	
N. and W. Gaslight Co., gas	15 98	
Dr. E. S. Wood, analysis of water	15 00	
Sage's Trunk Depot, russet case	10 00	
Fanning Printing Co., printing reports	9 00	
L. Nickerson, awning	9 00	
J. C. Clark Printing Co., blank book	8 00	
C. E. Farnum, sole leather	6 30	
Rival Lubricator Co., oil	4 82	
George H. Ingraham, bottles	4 00	
W. H. Ireland, loam	4 00	
T. A. Ward, hay	4 20	
C. H. Palmer, ladder	2 56	
M. Bunker, care of sick horse	2 00	
C. F. Eddy & Co., cement	1 60	
Stephen F. Cate, use of teams	53 00	
A. F. Harrington, use of teams	24 00	
William Weir, use of teams	2 50	
Fred B. Spear, use of teams	2 00	
C. Conant, hay	4 31	
Henry H. Hunt, material and labor	68 00	
Pettee Machine Works, material and labor	61 71	
<i>Amounts carried forward</i>	<hr/> \$12,451 83	<hr/> \$13,000 00

<i>Amounts brought forward</i> .	\$12,451 83	\$13,000 00
E. W. Hodgson, material and labor	54 46	
J. C. Farrar, material and labor .	36 67	
George B. Randall, material and labor	35 00	
Higgins & Nickerson, material and labor	31 99	
Henry F. Jenks, material and labor	30 89	
Peter A. McVicar, material and labor	30 00	
Cranitch & Horrigan, material and labor	16 13	
O. B. Leavitt, material and labor	14 67	
J. D. Billings, material and labor	12 00	
Isaac Smith, material and labor .	3 95	
Charles Carr, supplies . .	47 40	
Ward & Curley, supplies . .	25 31	
Walworth Mfg. Co., supplies .	11 15	
Hooper, Lewis & Co., supplies .	11 01	
A. S. Morss, supplies . .	9 71	
M. R. Warren, supplies . .	8 30	
Boston Machine Mfg. Co., supplies	6 25	
A. A. Savage, supplies . .	6 23	
J. A. & W. Bird & Co., supplies	5 55	
F. Murphy, supplies . .	4 00	
C. W. Morehouse, supplies .	3 07	
B. Billings, supplies . .	2 30	
Sabin & Page, supplies . .	2 10	
<i>Amounts carried forward</i> .	<hr/> \$12,859 97	<hr/> \$13,000 00

<i>Amounts brought forward,</i>	.	\$12,859 97	\$13,000 00
W. H. Gallison, supplies	.	2 00	
C. H. Jennison, expressage	.	3 20	
Frank R. Patch, expressage	.	2 10	
F. H. Hunting, expressage	.	2 00	
Sundry small bills	.	4 22	
		<hr/>	
Total, as per item No. 52 of expenses	.	\$12,873 49	
		<hr/>	
Balance, unexpended, transferred into treasury			\$126 51

Water Meters and Service Pipe.

Appropriation	.	\$5,000 00	
Additional, by order of City Council	.	1,700 00	
		<hr/>	\$6,700 00
Pay-rolls of laborers	.	2,177 33	
National Meter Co., meters, etc.	.	2,056 80	
Union Water Meter Co., repairs of meters	.	153 25	
J. C. Whitney, services as inspector	.	387 50	
Chadwick Lead Works, lead pipe, etc.	.	592 81	
Cunningham Iron Works Co., pipe, etc.	.	543 78	
Ward & Curley, supplies	.	234 53	
E. Smead & Co., for grain	.	82 04	
H. N. Hyde, Jr., sundry cash expenses	.	40 65	
		<hr/>	
<i>Amounts carried forward</i>	.	\$6,268 69	\$6,700 00

<i>Amounts brought forward</i> .	\$6,268 69	\$6,700 00
B. F. Barlow, blacksmithing .	32 04	
National Tube Works Co., pipe .	22 01	
Boston & Albany Railroad, freight	18 10	
Chapman Valve Manf. Co., water gate	16 00	
Jenkins Bros., packing . .	17 90	
H. R. Worthington, material and labor	11 21	
Walworth Manf. Co., supplies .	11 15	
C. Conant, hay	8 62	
E. W. Hodgson, material and la- bor	8 27	
T. A. Ward, hay	8 40	
A. S. Glover, sundry cash ex- penses	5 50	
M. C. Laffie, delivering sum- monses	6 00	
Robert S. Harrison, delivering summonses	3 50	
Charles P. Heustis, delivering summonses	3 00	
R. M. Lucas, delivering sum- monses	2 50	
W. E. Desper & Co., repairing meters	4 22	
Sabin & Page, supplies . .	4 15	
O. B. Leavitt, supplies . .	3 90	
Newton Transcript Publishing Co., printing	4 00	
<i>Amounts carried forward</i> .	<hr/> \$6,459 16	<hr/> \$6,700 00

<i>Amounts brought forward</i> .	\$6,459 16	\$6,700 00
Daniels' Nonantum Stables, use of teams	4 00	
Central Stables, use of teams .	1 50	
Frank R Patch, expressage .	2 28	
C. F. Eddy & Co., cement .	1 60	
Sundry small bills	2 71	
<hr/>		
Total, as per item No. 53 of expenses .		\$6,471 25
Balance, unexpended, transferred into treasury		\$228 75

Water Construction.

Total expenditure to December 31, 1884		\$966,584 73
Pay-roll of laborers	\$10,899 85	
Warren Foundry and Machine Co., iron pipe	13,062 45	
Chapman Lead Works, lead .	1,546 07	
Boston and Albany Railroad, freight	1,327 15	
Davis & Farnum Mfg. Co., cast- ings, etc.	1,322 48	
City Iron Foundry and Chain Works, gate boxes, etc. .	674 98	
Chapman Valve Mfg. Co., water gates, etc.	638 60	
Boston Machine Mfg. Co., hy- drants, etc.	512 11	
Cunningham Iron Works Co., pipe, etc.	487 61	
Timothy Stuart, carting pipe, etc.	458 02	
<hr/>		
<i>Amounts carried forward</i> .	\$30,929 32	\$966,584 73

<i>Amounts brought forward,</i>	\$30,929 32	\$966,584 73
John A. Gill, driving pipe for additional supply of water	349 56	
William S. French, services on account of additional supply of water	303 91	
George A. Goodyear, powder and fuse	180 84	
D. R. Wood & Co., hydrants	165 06	
E. Smead & Co., grain	161 64	
Henry F. Jenks, iron drinking fountains	150 00	
G. Fuller & Son, lumber	113 92	
Priest, Page & Co., sash wheels	110 00	
Park, Brother & Co., steel	71 74	
Union Water Meter Co., repairing meters, etc.	50 25	
Thomas McKinley, inspecting pipe	50 00	
Oliver Whyte & Co., copper net	41 25	
Hall Rubber Co., rubber boots	41 02	
H. N. Hyde, Jr., sundry cash expenses	40 00	
M. F. Lucas, lumber, etc.	38 65	
A. F. Noyes, sundry cash expenses	35 80	
H. M. Darling & Co., shovels, etc.	31 84	
American Fire Hose Mfg. Co., hose, etc.	31 76	
National Tube Works Co., pipe	22 00	
John E. Coleman, pipe, etc.	17 44	
N. & W. Gaslight Co., coke	15 00	
<i>Amounts carried forward</i>	<u>\$32,951 00</u>	<u>\$966,584 73</u>

<i>Amounts brought forward</i>	.	\$32,951 00	\$966,584 73
John Marden, labor	.	15 00	
Batchelder & Lincoln, rubber boots	.	14 40	
C. Conant, hay	.	12 92	
T. A. Ward, hay	.	12 60	
H. S. Macomber & Co., oil	.	11 58	
Waldo Bros., cement	.	9 20	
A. S. Morss, spikes	.	7 29	
Bingham & Taylor, service boxes	.	6 90	
Jenkins Bros, packing	.	6 78	
National Meter Co., repairing meters	.	8 68	
C. F. Eddy & Co., cement	.	4 85	
N. Y. & N. E. Railroad, freight	.	4 11	
F. Murphy, rubber	.	4 06	
Morss & Whyte, skimmer	.	3 50	
William T. Vose, labor	.	2 00	
Quincy Harrington, sharpening lawn mower	.	1 50	
B. F. Barlow, blacksmithing	.	112 31	
J. C. Farrar, blacksmithing	.	83 05	
Charles A. Cole, blacksmithing	.	79 05	
A. Danforth, Agt., blacksmithing	.	64 09	
Andrew Peters, blacksmithing	.	43 30	
S. D. Keegan, blacksmithing	.	17 90	
P. A. McVicar, blacksmithing	.	13 71	
Thomas Belger, blacksmithing	.	10 93	
Murray & Farrell, blacksmithing	.	6 08	
T. W. Mullen, blacksmithing	.	5 73	

Amounts carried forward . \$33,512 52 \$966,584 73

<i>Amounts brought forward</i> .	\$33,512 52	\$966,584 73
Frank R. Patch, expressage .	38 17	
F. H. Hunting, expressage . .	20 20	
C. H. Jenison, expressage . .	2 50	
A. F. Harrington, use of teams .	78 00	
Stephen F. Cate, use of teams .	4 00	
Henry H. Hunt, material and labor	80 30	
James Russell & Sons, material and labor	55 50	
T. J. Hartnett, material and labor	16 50	
W. A. Fogwill, material and labor	15 02	
E. W. Hodgson, material and labor	13 72	
Higgins & Nickerson, material and labor	7 35	
Pettee Machine Works, material and labor	3 67	
M. C. Higgins, material and labor	3 10	
J. Carroll, material and labor .	25	
Ward & Curley, supplies . .	536 70	
Sewall & Day Cordage Co, supplies	55 91	
H. R. Worthington, supplies .	55 08	
Parker & Wood, supplies . .	32 86	
A. A. Savage, supplies . .	21 66	
C. W. Morehouse, supplies . .	19 51	
J. W. Staniford, supplies . .	15 65	
<i>Amounts brought forward,</i> .	<hr/> \$34,588 17	<hr/> \$966,584 73

<i>Amounts brought forward,</i>	.	\$34,588 17	\$966,584 73
A. J. Wilkinson & Co., supplies		13 01	
Dodge, Haley & Co., supplies	.	7 73	
Bagnall & Loud, supplies	.	6 95	
Cobb, Bates & Yerxa, supplies	.	6 88	
Sabin & Page, supplies	.	6 20	
F. Armstrong, supplies	.	5 50	
Edson Manf. Co., supplies	.	3 70	
O. B. Leavitt, supplies	.	3 23	
George C. Goodwin & Co., supplies		1 12	
Walworth Manf. Co., supplies	.	589 02	
Henry F. Paine, supplies	.	3 80	
Total, as per item No. 54 of expenses		<u>\$35,235 31</u>	

Received.

Received from Boston & Albany
Railroad Corporation for chang-
ing main pipe as follows :

Beacon street	.	\$1,189 46
Washington street	.	932 17
Chestnut street	.	328 95

Received from J. B.
Gould for chang-
ing main in a pri-
vate way off Ben-
nington street . 43 91

Received from War-
ren Foundry and
Machine Co., re-
fund of freight
bill . . . 9 83

Total, as per item No. 46 of receipts \$2,504 32

\$32,730 99

Total expenditure to Dec. 31, 1885 . . \$999,315 72

Water Rebate.

Paid to sundry parties, rebate of water bills, as
per item No. 55 of expenses . . . \$196 43

West Newton (Shaw Street) Schoolhouse.

Total expenditure to Dec. 31, 1884 . . \$8,065 38

Henry H. Hunt, amount paid on
contract for building . . \$11,647 00

Walker & Pratt Manf. Co.,
amount paid on contract for
heating apparatus . . 1,284 00

J. Foster Ober, services as archi-
tect 521 55

C. F. Eddy & Co., coal . . 65 76

Total, as per item No. 56 of expenses . \$13,518 31

Total expenditure \$21,583 69

SCHEDULE OF CITY PROPERTY, REAL AND PERSONAL.**Alms-house Department.**

70 acres of land \$7,000 00

Buildings 8,000 00

Personal property 3,947 35

\$18,947 35

Armory Hall.

Land, building, fixtures, etc \$12,000 00

Amount carried forward \$30,947 35

Amount brought forward \$30,947 35

City Hall Department.

City Hall furniture and fixtures .	\$50,000 00	
City seal	25 00	
City stamps	35 00	
Reports, statutes, and special laws	300 00	
Set of standard weights and meas- ures	100 00	
Record books	200 00	
Bookcases, maps, etc.	500 00	
	<hr/>	\$51,160 00

Cemetery Department.

Land in Newton cemetery . .	\$2,000 00	
Tomb in Newton Cemetery . .	800 00	
	<hr/>	\$2,800 00

City Engineering Department.

Two transits, \$150 each . .	\$300 00	
Three transits, \$100 each . .	300 00	
Two levels, \$100 each . .	200 00	
Draughting materials . .	126 00	
Surveying materials	48 00	
Tools	50 00	
Horse, wagon, etc	150 00	
	<hr/>	\$1,174 00

Fire Department.

Steam fire engine No. 1, appa- tus, horses and furniture .	\$6,000 00	
Steam fire engine No. 2, appa- tus, horses and furniture .	6,000 00	
	<hr/>	
<i>Amounts carried forward</i> .	\$12,000 00	\$86,081 35

<i>Amounts brought forward</i> .	\$12,000 00	\$86,081 35
Steam fire engine No. 3, apparatus, horses and furniture .	6,000 00	
Hook and ladder, truck, horses, etc.	3,300 00	
Hose No. 4, horse, hose, reel, etc., Newtonville	1,200 00	
Hose No. 5, horse, hose, reel, etc., Auburndale	1,200 00	
Hose No. 6, horse, hose, reel, etc., Lower Falls	1,500 00	
Hose No. 7, hose-carriage, horse, hose, etc., Upper Falls .	1,500 00	
Fire-alarm telegraph, including team, etc.	\$23,000 00	
	<hr/>	\$49,700 00

Fire and Highway Department Buildings.

Steam fire-engine house, stables and land, Ward 7 . . .	\$13,000 00	
Steam fire-engine house, stables, and land, Ward 3 . . .	19,000 00	
Steam fire-engine house, stables, and land, Ward 6 . . .	19,000 00	
Hook and ladder and hose No. 4 house, stables and land .	17,500 00	
Hose station No. 5, stables and land, Auburndale . . .	5,200 00	
Hose station No. 6, stables and land, Lower Falls . . .	6,900 00	
Hose station No. 7, stables and land, Upper Falls . . .	5,500 00	
	<hr/>	\$86,100 00
<i>Amount carried forward</i> .		\$221,881 35

Amount brought forward . \$221,881 35

Free Library Department.

Newton Free Library, building		
and land	\$42,000 00	
Books	10,000 00	
	<hr/>	\$52,000 00

Gravel and Gravel Lands.

Land on Jewett Street, Ward 1 .	\$2,000 00
Land on California Street, Ward	
1	6,600 00
Land on Crafts Street, Ward 2 .	500 00
Land on Chapel Street, Ward 2	100 00
Land on Watertown Street,	
Ward 2	1,000 00
Land on Faxon Street, Ward 2 .	200 00
Land on Auburndale Avenue,	
Ward 3	1,200 00
Land on Pine Street, Ward 3 .	2,000 00
Land on Pine Street, Ward 3 .	2,000 00
Land on Pine Street, Ward 3 .	1,200 00
Land on Pine Street, Ward 3 .	250 00
Land on Pine Street, Ward 3 .	550 00
Land on Bourne Street, Ward 4	9,000 00
Gravel on Washington Street,	
Ward 4	600 00
Gravel on Washington Street,	
Ward 4	600 00
Gravel on Walnut street . .	500 00
Land on Elliot Street, Ward 5 .	1,000 00
Gravel on Parker Street, Ward 5	250 00

<i>Amounts carried forward</i> .	\$29,550 00	\$273,881 35
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<i>Amounts brought forward</i>	.	\$29,550 00	\$273,881 35
Gravel on Pine street	.	100 00	
Land east of Oak Street, Ward 5		1,200 00	
Land on Willow and Centre Streets, Ward	.	500 00	
Land on Florence Street, Ward 5		400 00	
Land on Florence Street, Ward 5		1,500 00	
Land on Homer Street, Ward 6		4,000 00	
		<hr/>	\$37,250 00

Highway Department.

1 steam road roller	.	\$6,000 00	
22 cart horses, \$225	.	4,950 00	
3 horses \$100	.	300 00	
2 horses for superintendent of streets	.	375 00	
26 double and single carts	.	2,600 00	
43 harnesses	.	850 00	
4 double sleds, \$200	.	800 00	
2 stone crushers and houses	.	4,600 00	
2 stone wagons, wagon, carriage, and sleigh	.	525 00	
Tools, chains, derricks, blankets, etc.	.	1,800 00	
1 road scraper	.	150 00	
		<hr/>	\$22,950 00

Lighting Department.

For 1,313 posts, lanterns, burners, etc., \$10	.	\$13,130 00	
<i>Amount carried forward</i>	.		\$347,211 35

Amount brought forward . \$347,211 35

Police Department.

Station-house, building and land,		
North Village	\$4,000 00	
Furniture and bedding . . .	50 00	
Lock-up, furniture and bedding,		
Ward 1	1,050 00	
Lock-up, furniture and bedding,		
Ward 6	1,575 00	
Two carriages, sleigh and harness	200 00	
Horse, saddle, bridle and harness	200 00	
15 pairs handcuffs, \$3.75 . . .	56 25	
30 clubs, \$1.50	45 00	
6 lanterns, \$2.50	15 00	
18 badges	112 00	
18 parade clubs and belts, \$3.50	63 00	
Blankets	50 00	
Record books	50 00	
Furniture in station at City Hall	75 00	
	<hr/>	\$7,541 25

School Department.

High School buildings, furniture		
and land	\$57,000 00	
Mason schoolhouse, furniture and		
land	49,100 00	
Hyde schoolhouse, furniture and		
land	24,000 00	
Prospect schoolhouse, furniture		
and land	31,000 00	
Prospect schoolhouse No. 2 furni-		
ture and land	7,500 00	
	<hr/>	
<i>Amounts carried forward</i> .	\$168,600 00	\$354,752 60

<i>Amounts brought forward</i>	.	\$168,600 00	\$354,752 60
Oak Hill schoolhouse, furniture and land	. . . . .	12,000 00	
Hamilton schoolhouse, furniture and land	. . . . .	28,000 00	
Williams schoolhouse, furniture and land	. . . . .	10,000 00	
Williams new schoolhouse and land	. . . . .	35,000 00	
Pierce schoolhouse, furniture and land	. . . . .	32,000 00	
Davis schoolhouse, furniture and land	. . . . .	13,000 00	
Franklin schoolhouse, furniture and land	. . . . .	15,000 00	
Clafin schoolhouse, furniture and land	. . . . .	35,000 00	
Adams schoolhouse, furniture and land	. . . . .	22,000 00	
Bigelow schoolhouse, furniture and land	. . . . .	42,000 00	
Underwood schoolhouse, furniture and land	. . . . .	24,000 00	
Lincoln schoolhouse, furniture and land	. . . . .	5,500 00	
Jackson schoolhouse, furniture and land	. . . . .	15,000 00	
Eliot schoolhouse, furniture and land	. . . . .	19,000 00	
Rice schoolhouse and land	. . . . .	20,000 00	
New schoolhouse and land, West Newton	. . . . .	21,000 00	
School apparatus	. . . . .	5,000 00	
		<hr/>	\$522,100 00
<i>Amount carried forward,</i>			<hr/> \$876,852 60

<i>Amount brought forward,</i>	\$876,852 60
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Water Department.

Building for pipe-fittings, etc., stable and land	\$3,500 00
3 horses, wagons, harness, etc.	500 00

\$880,852 60

For cost of water-works, see water construction account.

Table Showing the Number of Polls, Real and Personal Estate of the City, Amount of Tax, Rate per Cent., Appropriations, etc., for Twenty-Five Years.

A. D.	POLLS.	REAL ESTATE.	PERSONAL.	TOTAL.	CITY, STATE, AND COUNTY TAX.	RATE.	APPROPRIATIONS.	HOUSES.
1861.	2,056	\$5,644,285 00	\$1,955,835 00	\$7,600,120 00	\$57,804 88	\$7 20	\$47,500 00	1,330
1862.	1,989	5,476,805 00	2,495,821 00	7,922,620 00	56,599 17	6 60	35,000 00	1,374
1863.	1,911	5,504,367 00	2,988,195 00	8,492,562 00	64,968 65	7 20	40,000 00	1,399
1864.	2,046	5,637,755 00	2,309,021 00	7,946,776 00	78,000 55	9 50	52,500 00	1,421
1865.	2,118	5,756,185 00	3,390,075 00	9,146,260 00	113,991 12	12 00	60,000 00	1,438
1866.	2,297	6,394,835 00	4,560,724 00	10,955,559 00	114,149 59	10 00	75,000 00	1,491
1867.	2,438	7,227,285 00	4,995,127 00	12,222,412 00	153,990 88	12 20	95,000 00	1,552
1868.	2,736	9,104,567 00	5,366,602 00	14,411,169 00	193,208 88	13 00	160,000 00	1,671
1869.	2,937	10,288,610 00	5,634,266 00	15,922,876 00	188,990 46	11 50	150,000 00	1,826
1870.	3,055	11,407,070 00	6,330,922 00	17,737,992 00	222,514 71	12 20	185,000 00	2,077
1871.	3,199	12,770,420 00	6,615,593 00	19,386,013 00	223,521 32	11 20	185,000 00	2,220
1872.	3,420	15,792,960 00	8,463,904 00	24,256,864 00	334,314 87	13 50	291,050 00	2,392
1873.	3,659	18,446,275 00	7,537,775 00	25,984,050 00	384,089 84	14 50	333,300 00	2,523
1874.	3,917	20,032,800 00	8,048,645 00	28,081,445 00	372,893 53	13 00	320,000 00	2,657
1875.	4,089	21,073,495 00	7,882,374 00	28,955,869 00	399,085 46	13 50	351,000 00	2,876
1876.	4,334	21,128,120 00	7,072,845 00	28,200,965 00	392,201 13	13 60	350,004 99	3,004
1877.	4,045	20,007,025 00	6,627,488 00	26,634,513 00	370,319 38	13 60	402,200 00	3,057
1878.	3,882	18,694,105 00	6,408,825 00	25,012,930 00	352,942 43	13 80	378,400 00	3,150
1879.	4,010	17,456,655 00	6,330,697 00	23,787,352 00	326,959 64	13 40	367,850 00	3,178
1880.	4,132	17,718,270 00	7,481,830 00	25,200,100 00	361,139 40	14 00	388,525 00	3,214
1881.	4,336	18,298,510 00	8,169,763 00	26,468,273 00	379,494 18	14 00	416,505 00	3,257
1882.	4,502	18,930,485 00	7,405,223 00	26,335,718 00	383,633 00	14 20	423,930 00	3,310
1883.	4,661	19,794,805 00	7,329,283 00	27,124,088 00	427,033 59	15 40	488,120 00	3,381
1884.	4,804	20,467,295 00	7,347,266 00	27,814,561 00	410,137 68	14 40	478,306 88	3,468
1885.	4,984	21,134,820 00	7,865,000 00	28,999,820 00	415,965 48	14 00	475,190 00	3,542

TABLE
Showing Amount Paid for Support of Poor Out of Almshouse from
1851 to 1885 Inclusive.

1851 . . . \$138 56	1869 . . . \$2,019 28
1852 . . . 104 94	1870 . . . 2,197 41
1853 . . . 45 70	1871 . . . 3,713 39
1854 . . . 38 10	1872 . . . 2,884 79
1855 . . . 73 63	1873 . . . 3,066 59
1856 . . . 135 49	1874 . . . 3,895 51
1857 . . . 204 96	1875 . . . 5,553 79
1858 . . . 387 61	1876 . . . 9,336 14
1859 . . . 358 25	1877 . . . 10,259 57
1860 . . . 500 81	1878 . . . 8,284 10
1861 . . . 757 14	1879 . . . 8,246 42
1862 . . . 781 50	1880 . . . 6,455 80
1863 . . . 632 27	1881 . . . 6,808 75
1864 . . . 605 02	1882 . . . 7,933 57
1865 . . . 870 77	1883 . . . 8,016 14
1866 . . . 643 72	1884 . . . 7,076 86
1867 . . . 1,268 08	1885 . . . 8,500 15
1868 . . . 1,464 53	

SALARIES OF CITY OFFICERS, 1885.

Mayor	\$1,000 00
City clerk	2,000 00
City treasurer and collector	2,700 00
Assistant treasurer and deputy collector	1,200 00
City auditor	2,000 00
City solicitor	1,000 00
Chairman of assessors	1,200 00
Two assessors, each	750 00
Assistant assessors, each per day	4 00
City messenger	1,100 00
Clerk of Common Council	200 00
Sealer of weights and measures	75 00

HIGHWAY DEPARTMENT.

Superintendent of streets, two horses and carriage furnished	\$1,500 00
City Engineer	2,100 00

FIRE DEPARTMENT.

Chief of department, team furnished . . .	\$1,500 00
Assistant chief and Superintendent of Fire Alarm Telegraph, team furnished . . .	950 00
Three engineers of steamers, each . . .	950 00
Four drivers of steamers, and Hook and Ladder Co., each	750 00
One driver of hose-carriage No. 4	600 00
Eight foremen of steamers, and Hook and Ladder, and Hose Co., each	110 00
Eight assistant foremen, and clerks of steamers, and Hook and Ladder, and Hose Co., each	105 00
Forty-eight hosemen and laddermen, each .	100 00

POLICE DEPARTMENT.

City marshal, team furnished	\$1,500 00
Sergeant of police, \$3 per day	
Twelve policemen, each	1,000 00
Two policemen	900 00
Two policemen	750 00
First year of service	750 00
Second year of service	825 00
Third year of service	900 00
Fourth and subsequent years	1,000 00

POOR DEPARTMENT.

Seven overseers of poor, each	\$50 00
City almoner and clerk of board	700 00
Warden of almshouse	600 00

WATER DEPARTMENT.

Water registrar	\$1,800 00
Superintendent of water-works, team furnished	1,500 00
Inspector of meters and fixtures	1,200 00
Engineer at pumping station, with house-rent .	1,200 00
Fireman and watchman, pumping station with house-rent	600 00

SCHOOLS.

Superintendent	\$2,800 00
One teacher	2,800 00
Six teachers at \$1,900	11,400 00
One teacher	2,200 00
Two teachers at \$1,800	3,600 00
Three teachers	4,800 00
One teacher	800 00
Five teachers at \$1,000	5,000 00
Two teachers at \$950	1,900 00
Sixteen teachers at \$750	12,000 00
Forty-two teachers at \$600	25,200 00
Six teachers at \$550	3,300 00
Six teachers at \$500	3,000 00
Three teachers at \$450	1,350 00
Two teachers at \$300	600 00
One teacher	400 00
Secretary of School Committee	300 00

Janitors.

One janitor	\$650 00
One janitor	696 00
One janitor	540 00
Two janitors, each	480 00
Three janitors, each	360 00
Two janitors each	264 00
One janitor	300 00
Two janitors at \$240	480 00
Two janitors, each	200 00
Two janitors at \$96	192 00

Library.

Librarian	\$1,000 00
Assistant librarian	600 00
Three assistants, each \$400	1,200 00
Janitor	800 00

OFFICERS
OF THE
NEWTON CITY GOVERNMENT,
1886.

MAYOR.

J. WESLEY KIMBALL.
Office Hour at City Hall:
3:30 P. M. Daily.

BOARD OF ALDERMEN.

President, GEORGE PETTEE.

Ward One.

FRANK A. DEARBORN.

Ward Three.

JAMES H. NICKERSON.

Ward Five.

GEORGE PETTEE.

Ward Two.

BENJAMIN S. GRANT.

Ward Four.

GEORGE M. FISKE.

Ward Six.

EDWARD H. MASON.

Ward Seven.

SAMUEL L. POWERS.

STANDING COMMITTEES.

Elections and Returns.

ALDERMEN.

GEORGE PETTEE.

JAMES H. NICKERSON.

Enrolled Ordinances and Resolutions.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON

BOARD OF MAYOR AND ALDERMEN.

Standing Committees.

Police.

THE MAYOR.

ALDERMEN.

EDWARD H. MASON.

FRANK A. DEARBORN.

Licenses. Weights and Measures.

ALDERMEN.

GEORGE M. FISKE.

SAMUEL L. POWERS.

Regular meetings of the Board, first and third Mondays of each month, 7.15 P. M.

Clerk of Board of Aldermen.

ISAAC F. KINGSBURY.

COMMON COUNCIL.

President, JAMES W. FRENCH.

Ward One.

LEWIS E. COFFIN.

J. EDWARD HOLLIS.

Ward Two.

N. HENRY CHADWICK.

ELLIS W. REDPATH.

Ward Three.

GEORGE D. DIX.

ANDREW J. FISKE.

Ward Four.

WINTHROP B. ATHERTON.

FREDERICK JOHNSON.

Ward Five.

EDMUND G. POND.

EDWARD M. BILLINGS.

Ward Six.

FRANK EDMANDS.

CHARLES W. ROSS.

Ward Seven.

JAMES W. FRENCH.

J. CHARLES KENNEDY.

Standing Committee of the Common Council.

Enrolled Ordinances and Resolutions.

COUNCILMEN.

ANDREW J. FISKE.

EDMUND G. POND.

LEWIS E. COFFIN.

Regular meetings of the Common Council, second and fourth Monday of each month, 7:15 P. M.

Clerk of Common Council.

ALBERT S. GLOVER.

JOINT STANDING COMMITTEES OF CITY COUNCIL.

Finance and Salaries.

ALDERMEN.

BENJAMIN S. GRANT.

SAMUEL L. POWERS.

COUNCILMEN.

PRES. JAMES W. FRENCH.

FREDERICK JOHNSON.

J. EDWARD HOLLIS

Accounts.

ALDERMEN.

FRANK A. DEARBORN.

GEORGE M. FISKE.

COUNCILMEN.

ANDREW J. FISKE.

ELLIS W. REDPATH.

EDMUND G. POND.

Public Property.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON

COUNCILMEN.

WINTHROP B. ATHERTON.

J. CHARLES KENNEDY.

EDWARD M. BILLINGS.

State Aid, Soldiers' Relief and Military Affairs.

ALDERMEN.

GEORGE M. FISKE.

FRANK A. DEARBORN.

COUNCILMEN.

ANDREW J. FISKE.

EDMUND G. POND.

J. CHARLES KENNEDY.

Fuel and Street Lights

ALDERMEN.

SAMUEL L. POWERS.

JAMES H. NICKERSON.

COUNCILMEN.

FRANK EDMANDS.

EDWARD M. BILLINGS.

ELLIS W. REDPATH.

Fire Department.

ALDERMEN.

GEORGE PETTEE.

SAMUEL L. POWERS.

COUNCILMEN.

WINTHROP B. ATHERTON.

FRANK EDMANDS.

ANDREW J. FISKE.

Highways.

(Inc. Streets and Ways, Sidewalks, Drains and Culverts.)

ALDERMEN.

JAMES H. NICKERSON.

GEORGE M. FISKE.

GEORGE PETTEE.

COUNCILMEN.

CHARLES W. ROSS.

N. HENRY CHADWICK.

LEWIS E. COFFIN.

J. CHARLES KENNEDY.

Printing.

ALDERMAN.

EDWARD H. MASON.

COUNCILMEN.

WINTHROP B. ATHERTON.

EDWARD M. BILLINGS

Ordinances.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON.

COUNCILMEN.

ANDREW J. FISKE.

FREDERICK JOHNSON.

LEWIS E. COFFIN

Claims.

ALDERMEN.

EDWARD H. MASON.

SAMUEL L. POWERS.

COUNCILMEN.

PRES. JAMES W. FRENCH.

GEORGE D. DIX.

J. EDWARD HOLLIS.

Almshouse and Poor.

ALDERMAN.

GEORGE PETTEE.

COUNCILMEN.

GEORGE D. DIX.

CHARLES W. ROSS.

Assessors' Department.

ALDERMAN.

JAMES H. NICKERSON.

COUNCILMEN.

EDMUND G. POND.

N. HENRY CHADWICK.

Highway Surveyors.

ALDERMEN.

JAMES H. NICKERSON.

GEORGE M. FISKE.

GEORGE PETTEE.

COUNCILMEN.

CHARLES W. ROSS.

N. HENRY CHADWICK.

LEWIS E. COFFIN.

J. CHARLES KENNEDY

Public Parks, Squares and Burial Grounds.

ALDERMEN.

SAMUEL L. POWERS.

GEORGE PETTEE.

FRANK A. DEARBORN.

COUNCILMEN.

FRANK EDMANDS.

GEORGE D. DIX.

ELLIS W. REDPATH.

FREDERICK JOHNSON.

JOINT SPECIAL COMMITTEES.

Sewerage.

ALDERMEN.

EDWARD H. MASON.

GEORGE M. FISKE.

COUNCILMEN.

ANDREW J. FISKE,

N. HENRY CHADWICK.

LEWIS E. COFFIN.

Rules and Orders.

ALDERMEN.

BENJAMIN S. GRANT.

EDWARD H. MASON.

COUNCILMEN.

EDWARD M. BILLINGS.

WINTHROP B. ATHERTON.

CHARLES W. ROSS.

Read Fund.

ALDERMEN.

FRANK A. DEARBORN.

SAMUEL L. POWERS.

COUNCILMEN.

PRES. JAMES W. FRENCH.

J. CHARLES KENNEDY.

J. EDWARD HOLLIS.

LEWIS E. COFFIN.

Clerk of Committees.

BENJAMIN F. OTIS.

TRUSTEES OF NEWTON FREE LIBRARY.

JOHN S. FARLOW, *President.*

ALDERMAN FISKE,	COUNCILMAN REDPATH.
JULIUS L. CLARKE.	BRADFORD K. PIERCE.
A. LAWRENCE EDMANDS.	WM. CLAFLIN.

Meetings: First Tuesday in each month, 7 o'clock P. M.

BOARD OF HEALTH.

THE MAYOR, *ex-officio.*

ALDERMAN BENJ. S. GRANT, *President.*

COUNCILMAN FRANK EDMANDS.	J. FRANKLIN FULLER.
JESSE F. FRISBIE.	OTIS PETTEE.

Agent of Board.

NATHAN MOSMAN.

Clerk.

ISAAC F. KINGSBURY.

Agent for Inspection of Plumbing.

ALBERT F. NOYES.

Meetings: First and Third Tuesdays in each month, 4:20 P. M.

WATER BOARD.

EDWARD W. CATE, *President.*

ALDERMAN GEORGE PETTEE.	COUNCILMAN GEORGE D. DIX.
FRANCIS A. DEWSON.	CHAS. FRED CREHORE.

Clerk.

ALBERT S. GLOVER.

SINKING FUND COMMISSIONERS.

GEORGE S. BULLENS.	GEORGE C. LORD.
ALDEN SPEARE.	

City Solicitor.

WINFIELD S. SLOCUM.

ASSESSORS.

ISAAC HAGAR, *Chairman.*

SAMUEL M. JACKSON.

HOWARD B. COFFIN.

REGISTRARS OF VOTERS.

GEORGE E. BRIDGES, *Chairman.*

GEORGE H. BOURNE.

RICHARD T. SULLIVAN.

Clerk.

ISAAC F. KINGSBURY.

OVERSEERS OF POOR.

THE MAYOR, *ex-officio.*

Ward One.

DEXTER WHIPPLE.

Ward Two.

E. S. COLTON.

Ward Three.

GEORGE H. INGRAHAM.

Ward Four.

NATHAN MOSMAN.

Ward Five.

HOSEA C. HOYT.

Ward Six.

GEORGE WARREN.

Ward Seven.

JOHN WARNER.

Clerk.

NATHAN MOSMAN.

Meetings: First Thursday in each month, 3.45 P. M.

SECRETARY OF SCHOOL COMMITTEE.

THOMAS EMERSON (Superintendent of Schools).

OFFICE AT HIGH SCHOOL.

Hours: Monday, 2 to 4 and 6.30 to 8 P. M.

OFFICERS AT CITY HALL.

P. O. Address, West Newton, Mass.

City Clerk, ISAAC F. KINGSBURY.

City Treasurer and Collector of Taxes, JOHN A. KENRICK.

Deputy Collector of Taxes, MOSES CLARK, JR.

Auditor, BENJAMIN F. OTIS.

City Engineer, ALBERT F. NOYES.

Chairman of Assessors, ISAAC HAGAR.

Water Registrar, ALBERT S. GLOVER.

City Almoner, Clerk of Overseers of Poor, NATHAN MOSMAN.

City Messenger, J. D. WELLINGTON.

City Marshal, DANIEL M. HAMMOND.

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OFFICE HOURS:

8.15 A. M. to 12.30 P. M. 2 P. M. to 5 P. M.

Except Saturdays in June, July, August and September,
when the hours are from 8.15 A. M. to 1 P. M.

Chief of Fire Department, HENRY L. BIXBY.

Hours at City Hall, 2 to 5 P. M.

Superintendent of Streets, WILLIAM E. FULLER.

Hours at City Hall, 11.30 to 12 A. M., 4.30 to 5 P. M.

Superintendent of Water Works, H. N. HYDE, JR.

Office at Pipe Yard, Austin Street, Newtonville.

STATISTICS COMPILED BY THE CITY CLERK FROM THE
RECORDS OF HIS OFFICE.

MARRIAGES REGISTERED, 1885.

January	18	August	12
February	15	September	17
March	9	October	28
April	12	November	18
May	16	December	11
June	21		
July	17	Total	194

Birthplace of the Above Contracting Parties.

	GROOM.	BRIDE.
United States	109	107
Ireland	48	49
Canada	30	31
England	4	4
Germany	1	1
Scotland	1	-
Switzerland	1	-
France	-	1
At sea	-	1
Totals	194	194
American	109	107
Foreign	85	87
Totals	194	194

BIRTHS REGISTERED IN 1885.

WARDS.	1		2		3		4		5		6		7		TOTAL.		AGGREGATE.
	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	
January	2	4	3	4	1	2	3	2	3	2	1	3	-	1	18	19	37
February	2	1	7	3	5	2	2	2	3	4	1	4	-	-	17	15	32
March	3	1	3	3	4	3	4	3	1	2	2	4	1	-	18	10	28
April	1	3	3	6	3	6	1	1	2	3	3	3	2	3	14	17	31
May	2	3	1	6	6	2	3	3	4	3	3	2	1	3	19	23	42
June	3	3	2	4	4	3	1	6	3	7	2	6	2	1	18	20	38
July	2	3	4	5	4	3	3	3	2	4	2	1	3	-	17	21	38
August	3	4	9	4	2	4	2	3	1	1	4	1	2	2	25	19	44
September	3	2	4	4	2	1	2	2	3	1	2	1	3	1	14	10	24
October	2	2	9	3	-	2	4	2	2	3	3	4	1	1	24	12	36
November	4	4	6	3	3	2	1	2	1	2	4	3	-	1	19	17	36
December	3	1	4	6	1	2	3	1	-	1	6	3	1	1	18	15	33
Totals	30	27	53	51	33	26	31	29	23	21	39	30	12	14	221	198	419
Aggregate	57		104		59		60		44		69		26		419		

Birthplace of Parents of Above.

	FATHERS.	MOTHERS.
United States	222	213
Ireland	115	114
Canada	57	69
England	11	13
Germany	2	2
Sweden	3	2
Scotland	2	2
China	1	—
Prussia	1	—
Italy	1	2
East Indies	—	1
Holland	2	—
Switzerland	2	1
Total	419	419
American	222	213
Foreign	197	206

Birthplace of Parents of Above Deceased Persons.

	FATHERS.	MOTHERS.
United States	130	132
Ireland	88	87
Canada	29	20
England	6	8
France	3	3
Scotland	1	2
Channel Islands	1	1
Italy	1	1
Sweden	1	1
Denmark	1	—
Unknown	13	19
Totals	274	274
American	130	132
Foreign	131	123
Unknown	13	19
Totals	274	274

DEATHS REGISTERED IN 1885.

Statement Showing Causes of Death in Each Month (Concluded).

	JANUARY.	FEBRUARY.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.	TOTAL.
Hemiphlegia - - - -	-	-	-	1	-	-	-	-	-	-	-	-	1
Hepatitis - - - -	-	-	1	-	-	-	-	-	-	-	-	-	1
Hernia, strangulated - -	-	-	1	-	-	-	-	-	-	-	-	-	1
Hydrocephalus - - - -	-	-	-	-	1	1	1	-	-	-	-	-	3
Intestinal obstruction -	-	-	1	-	1	-	-	-	-	-	-	-	2
Kidneys, hemorrhage of -	-	-	-	-	-	-	-	1	-	-	-	-	1
Liver, abscess of - - -	-	-	1	-	-	-	-	-	-	-	-	-	1
Liver, atrophy of - - -	-	-	-	-	-	-	-	-	-	-	-	1	1
Liver, cancer of - - -	-	-	-	-	-	-	-	-	1	-	-	-	1
Lung disease - - - -	-	-	-	-	-	-	-	1	-	-	-	-	1
Marasmus - - - -	-	-	-	-	-	1	1	-	-	-	-	-	2
Measles - - - -	-	1	1	2	-	1	-	-	-	-	-	-	5
Meningitis - - - -	2	1	1	-	-	1	1	1	1	-	-	1	9
Metritis - - - -	-	-	-	-	-	-	-	-	-	-	-	1	1
Necrencephalus - - -	-	-	-	-	-	-	-	-	1	-	-	-	1
Nephritis - - - -	-	-	1	-	-	-	-	-	1	-	-	-	2
Old age - - - -	2	3	-	1	1	2	2	1	3	4	-	-	19
Organic cardiac dis. -	-	-	-	-	-	-	-	1	-	-	-	-	1
Paralysis - - - -	1	-	-	1	1	-	1	-	-	-	-	-	4
Peritonitis - - - -	-	1	-	-	-	1	-	1	-	-	-	1	4
Pistol shot - - - -	1	-	-	1	1	-	-	-	-	-	-	-	3
Pneumonia - - - -	2	3	3	1	2	2	-	1	1	2	2	2	21
Pneumonia, typhoid - -	-	-	-	-	2	-	-	-	-	-	-	-	2
Purpura hemorrhage - -	-	-	-	-	-	-	-	-	1	-	-	-	1
Rectum, cancer of - - -	-	-	-	-	1	-	-	-	-	-	-	-	1
Rheumatic arthritis - -	-	1	-	-	-	-	-	-	-	-	-	-	1
Rheumatism - - - -	-	-	-	-	-	1	-	-	-	-	-	-	1
Sarcoma cutes - - - -	-	-	-	-	1	-	-	-	-	-	-	-	1
Sclerosis of spinal cord -	-	-	1	-	-	-	-	-	-	-	-	-	1
Shock due to miscarriage -	-	-	-	-	-	-	-	1	-	-	-	-	1
Spasm, infantile - - -	-	1	-	-	-	-	-	-	-	-	-	-	1
Spina bifida - - - -	-	-	-	-	1	-	-	-	-	-	-	-	1
Spine, concussion of - -	-	1	-	-	-	-	-	-	-	-	-	-	1
Stillborn - - - -	1	2	-	1	4	1	2	1	-	1	-	5	18
Stomach, inflammation of -	1	-	-	-	-	-	-	-	-	-	-	-	1
Stomach, scirrhus of - -	-	-	-	-	1	-	-	-	-	-	-	-	1
Suffocation - - - -	-	-	-	1	-	-	-	-	-	-	-	-	1
Throat, cancer of - - -	-	-	-	-	-	-	-	-	-	-	-	1	1
Tuberculosis, acute - -	-	-	-	-	2	1	-	-	-	-	1	-	4
Tumor - - - -	-	1	-	-	1	-	-	-	-	-	-	-	2
Unknown - - - -	-	-	1	-	-	-	-	-	-	-	-	-	1
Uraemia - - - -	-	-	-	-	-	-	-	1	-	-	-	-	1
Uterine hemorrhage - -	-	-	1	-	-	-	-	-	-	-	-	-	1
Uterus, cancer of - - -	1	-	-	-	-	-	-	-	-	-	-	-	1
Worms - - - -	-	-	-	-	-	-	1	-	-	-	-	-	1
Total d'ths in e'ch month	24	29	22	23	26	24	28	26	19	18	11	24	274

FEES. Collected

Assignment of wages . . .	\$19 50	
Assignment of wages, discharged	75	
Assignment of account . . .	1 25	
Bills of sale	4 95	
Foreclosure of pledge . . .	25	
Licenses, auctioneer	18 00	
Licenses, innholder	1 00	
Licenses, intelligence office .	2 00	
Licenses, junk	18 00	
Licenses, marriage	97 50	
Mortgages	99 95	
Mortgages, assignment of . .	2 00	
Mortgages, discharged . . .	10 00	
Naturalization certificate . .	1 50	
Woman certificate of business on own account	50	
Total		\$277 15

Dogs Licensed.

928 males at \$2	1,856 00	
99 females at \$5	495 00	
		\$2,351 00
Total collections		\$2,628 15
By amount, sundry fees paid monthly to city treasurer .	277 15	
Dec. 4, Retained from amount re- ceived from dog licenses, and paid to city treasurer, 1,027 licenses, at 20c.	205 40	
Dec. 1, Paid county treasurer balance for dogs' licenses .	2,145 60	
		\$2,628 15

Dogs are distributed in the various Wards as follows:—

	1	2	3	4	5	6	7	To'ts.
Males.	110	159	162	124	113	175	85	928
Females.	15	17	16	6	14	20	11	99
	125	176	178	130	127	195	96	1,027

Registered Voters. (From List used at City Election, Dec. 2)

Wards,	1	2	3	4	5	6	7
	391	551	507	444	436	466	381

Total, 3176.

Enrolled Militia.

Wards, 1	2	3	4	5	6	7	Total.
394	509	319	262	495	623	390	2992
1884, 344	479	301	310	479	565	267	2745

Gain, 1885 247

All the wards show a gain except Ward 4, where there is a loss of 48.

CITY OF NEWTON.

ANNUAL REPORT

OF THE

OVERSEERS OF THE POOR,

TOGETHER WITH

The Report of the Agent of the Board of Health,

For the Year Ending December 31, 1885.



NEWTON.

PRESS OF THE NEWTON JOURNAL.
1886.

At the regular meeting of the Board of Overseers of the Poor held this day, the Annual Report for 1885, as prepared by the Clerk, was adopted by the Board; and he was instructed to present the same to the City Council.

NATHAN MOSMAN, CLERK.

WEST NEWTON, February 4, 1886.

BOARD OF OVERSEERS OF THE POOR.

1885.

HIS HON. J. WESLEY KIMBALL, Chairman, ex officio.

Ward One.

DEXTER WHIPPLE.

Ward Three.

GEORGE H. INGRAHAM.

Ward Five.

HOSEA C. HOYT.

Ward Two.

EDWARD S. COLTON.

Ward Four.

NATHAN MOSMAN.

Ward Six.

GEORGE WARREN.

Ward Seven.

JOHN WARNER.

Committee on Almshouse.

JOHN WARNER.

HOSEA C. HOYT.

NATHAN MOSMAN.

City Almoner and Clerk of the Board.

NATHAN MOSMAN.

Warden of Almshouse.

NATHANIEL D. MOODY.

Matron of Almshouse.

MRS. ELIZA A. MOODY.
City Almshouse, Beacon Street.

REPORT OF THE OVERSEERS OF THE POOR.

To the City Council of the City of Newton:—

Gentlemen,—The Board of Overseers of the Poor of the City of Newton herewith respectfully presents its annual report for the year ending Dec. 31, 1885.

No essential change has been made in the system of public aid during the year, the usual policy having been pursued with both the almshouse department and the outside poor.

The number of those receiving aid out of almshouse and the amount of expense incurred, have both increased, though not in excess of what might have been anticipated, considering the growth of the City and the unequal circumstances of different years.

The membership of the Board has remained the same as last year with the exception of the changes in Wards 2 and 3.

At the twelve meetings of the Board during the year, in which business has been transacted there has been an average attendance of six and one-fourth in a membership of seven.

His Honor the Mayor has favored the Board with his presence and has presided at each meeting of the Board during the year.

Medical attendance in the several widely separated villages has from motives of convenience and economy been continued as in the past, by employing resident physicians in the several localities.

Outside aid, where the ultimate interests of families seemed to be most promoted by this method, has continued a large element in the operations of the Board. This aid at times reaches such proportions as to raise the question whether the true limit is being exceeded in this direction.

There has been a greater number than usual of families in which the father after an expensive sickness has been removed by death leaving a mother with several children to be in large measure supported by public and continuous aid.

The number in Insane Hospitals has again increased to more nearly an annual average.

The amount expended for the Insane in 1884 was \$1,662 50. In 1885 it has been \$2,050 39.

The expenses for the Poor out of almshouse have exceeded the appropriation by \$500 15.

The receipts from the State, other cities and towns and friends of the relieved have been larger than usual, being \$644 88 in excess of 1884, which although not relieving the appropriation has reduced the net cost of the department.

During the year several cases of sickness or accident have been sent to Boston Hospitals thereby incurring considerable extra expense.

Although a great convenience to be able to reach good Hospital treatment in Boston, the distance is such that it will be considered a gain, though the expense be equal, if these necessities can be met in the Newton Cottage Hospital which approaches completion.

It is to be borne in mind that the requirements of the statutes and of humanity are inexorable and must be met by the Board though as a result the appropriation be exceeded. In the annual report of a neighboring city of high reputation in the care of the Poor is found the following: "How to deal

humanely and wisely with the poor is a problem that has not yet been satisfactorily solved. The officers who were selected as the almoners of the City's bounty are being constantly 'between two fires.' One person with large sympathy and a knowledge of but one side of the case complains of the executive officer, charging him that he fails to perform his whole duty, while another with an eye to the tax levy and perhaps with no definite ideas upon the policy to be pursued, charges him with an excess of liberality and that the city funds are disbursed too generously or to unworthy persons; but if our citizens generally would make personal investigation of reported cases, or have an interview with some one of the Overseers of the Poor, they might obtain a much more correct idea of what ought to be done or what had been done."

The whole number of families receiving partial support out of the almshouse during any part of the year was 142. The whole number of persons 421. Of these there were males, 172; females, 249. Under 16 years of age, 211. Having settlement in Newton, 288. Having settlement in other cities and towns, 58. Having no settlement, 75.

Persons wholly supported out of almshouse during any part of the year are as follows:

Northampton Lunatic Hospital	1
Asylum for chronic Insane, Worcester	2
Worcester Lunatic Hospital	10
Danvers Lunatic Hospital	2
Remaining at present in Insane Hospital	11

The amount appropriated by the City Council for Poor out of almshouse was \$8,000 00

The amount expended for the same was as follows:

Cash payments	\$328 30
Groceries	2,105 55
Fuel	1,077 08

Clothing	28 04
Board	422 31
Medical attendance	297 95
Medicine	122 64
Burials	128 00
Feeding tramps and travellers	29 86
Support of Insane	2,050 39
Paid other cities and towns	602 07
Commonwealth of Massachusetts	258 00
Salary of clerk and almoner	700 00
Salary of overseers	350 00
<hr/>	
Total expenditures	8,500 15
Receipts from the state, other cities and towns and friends of the relieved	1,660 62
<hr/>	
Net cost of poor out of almshouse	\$6,839 53

ALMSHOUSE DEPARTMENT.

The number of persons who have been supported at the almshouse for all or part of the year has been 45. Present number 30. Average number for the year 30. Died during the year 4.

A majority of the inmates are aged, few being able to render any efficient aid either in doors or on the farm. An average degree of health has prevailed with the exception of some special cases requiring unusual medical attendance and also care on the part of the matron.

The house is considered as perfect in comfort and convenience for the purpose designed as could be provided. Its capacity is fully equal to the demands thus far made upon it. There remains a want unsupplied in that there is no separate ward for contagious diseases, or such other cases as with the utmost care will contaminate the atmosphere of the whole house. The evils of these conditions must be apparent to all.

To meet this want a small building connected by a passage way with the main house is needed. It may not be considered wise to make this addition to the buildings in their present location, as the probabilities of a change in the future may not warrant such outlay.

The crops gathered have been of average quality while the productive capacity of the farm is reduced by the land grant to the Circuit Road.

The purchase of standing wood to be prepared in winter for sale, is an important item in the management of this department, though apparently counting against it. The purchasing expense being from almshouse appropriation while the receipts of sales are turned into the city treasury.

These purchases are made as opportunity presents to do so profitably. The wood after being sawed and split is supplied to the poor on orders from the overseers, sold to the various departments of the city and to outside persons who may order.

The grading and completion of approaches to the bridge, in the rear of the farm buildings, across the Circuit Railroad, has caused some additional expense to the department.

It is understood that during the summer of 1886 the Newton Circuit Railroad will have completed the station houses at Beacon street and other stations on the line of the road with regular trains established. The fact is apparent that with these facilities for travel and the decided attractions of this locality, the lands in this vicinity will be in demand for other purposes than farming and too valuable to keep for almshouse uses.

In view of these facts, although the locality and conveniences of the establishment are so nearly all that are or would be wanted for many years, so far as the department is con-

cerned, the Board consider it desirable that any opportunity that may offer for the purchase of a new and suitable location should be considered, that a change may be made in the most desirable and advantageous time.

The management of the almshouse and farm has been continued by the Warden and matron, with their usual interest and success and to the satisfaction of the Board.

The proper care and control of such a number of persons, many of whom by reason of infirmity, habit or disposition require patience as well as firmness, is a task which requires constant effort to secure satisfactory results to all concerned.

Whole amount appropriated by the City Council for almshouse expense and repairs including \$500.00 for bridge, over the B. and A. R. R.	\$4,250 00
Whole amount expended	4,544 41
Amount received from sale of produce, wood,	
board, etc.	1,804 35
Almshouse expense and repairs net	2,740 06

For the Overseers of the Poor,

NATHAN MOSMAN, *Clerk.*

Report of the Agent of the Board of Health.

BOARD OF HEALTH.
OF THE
CITY OF NEWTON.
1886.

THE MAYOR, ex officio.

ALDERMAN B. S. GRANT.

COUNCILMAN FRANK EDMANDS. JESSIE F. FRISBIE, M. D.
J. FRANKLIN FULLER. OTIS PETTEE.

Agent of Board.

NATHAN MOSMAN.

Clerk.

ISAAC F. KINGSBURY.

Agent for Inspection of Plumbing.

ALBERT F. NOYES.

Meetings: First and Third Tuesdays in each month, 4.20 P. M.

REPORT OF THE BOARD OF HEALTH.

CITY HALL, West Newton, February 15, 1886.

TO THE CITY COUNCIL :—

The somewhat reduced number of nuisances and sources of disease to be reported would seem to indicate that progress was being made in correcting these matters and raising the general health conditions of the city.

In all cases reported to the Board for investigation and action, the usual attention has been given to correct dangerous conditions.

Such action has almost universally been met by a spirit of hearty co-operation by all citizens interested, and every needed effort made to meet the requirements of the Board.

These necessary requirements are often attended with inconvenience, and, in some cases, with considerable expense on the part of those owning or managing premises involved.

A systematic inspection of the city would doubtless at any time reveal a large number of premises of imperfect and unsafe character, requiring corrective treatment.

The rural character of the city, with its roomy estates, even among its more cheaply constructed tenement proper-

ties, becomes a saving element in these carelessly built and kept places.

In the report of diseases dangerous to public health, both in 1884 and 1885, it will be noticed that scarlet fever has prevailed apparently in wild epidemic form, but it will be also noticed that diphtheria during this same period has appeared only in a light degree.

The threatened invasion of cholera from Europe has not been an unmitigated evil, as it has given a decided impulse to the cleansing of premises about dwellings and destroying propagating beds of the disease. This has been especially true in seaport cities, and also, though in less degree, in inland places.

During the epidemic of small-pox in Canada the past season, all neighboring States and cities were using all available precautions to prevent the introduction of disease into exposed localities.

The village and mills at Nonantum became especially exposed from the fact that the mills were operated to so great an extent by persons coming from Canada, and the destination of nearly every person coming from Canada to Newton was this locality.

The usual provision for vaccination by the Board of Health, and previously used to a limited degree, was in this case extended to these mills and the school of this village.

The day following the commencement of this work a case of small-pox was reported as in a house on Chapel Street, and created no small excitement. An investigation of the premises showed it to have been a case of mistaken identity. Although a visitation of this disease was confidently predicted and expected, the year closed without any case appearing within the limits of Newton.

The appointment by the Board of additional physicians for free vaccination for those not able to pay is a convenience and safeguard. The list as now constituted is as follows: James Utley, J. F. Frisbie, W. O. Hunt, F. E. Crockett, H. P. Bellows, D. E. Baker, W. H. Hildreth, J. R. Deane, S. A. Sylvester.

Typhoid fevers have at times shown an inclination to linger in the village of Thompsonville. The locality in general conditions seeming healthy, the water supply became an object of suspicion as being the cause of the sickness.

The wells in this vicinity are sunk in the soil, which fills the basins and hollows in the natural rock formation, being carried down to and sometimes into the rock.

Having no living springs or subterranean water courses, these wells may, as a natural and expected result, during the lowering and rising again of the ground water in the summer and autumn, become unsafe for domestic uses.

The analysis of the water from two of these wells proved the suspicions of the Board to be correct and the waters unfit for use.

The investigations of the Board and successful efforts to have the city water carried to this locality must prove of the greatest benefit to the present and future population of this part of the city.

Numbers of old wells are still in use in the city for domestic water supply. Many of these furnish safe water, while others are a constant menace to the health of families dependent on them, and must continue so until superseded by city water.

Could the actual facts of loss of health from this cause be made public, it would be a convincing argument against many wells now held as treasures.

The swine nuisance is a cause of constant complaint to the Board from citizens, and with apparent reason.

It is difficult to convince those of pure tastes that it is not as great a breach of their right and privilege to contaminate the air they breathe as the water they drink.

While in many cities the swine question is controlled by license, in Newton it is without control, and each citizen makes his neighbor breathe polluted air at will.

The cow stable nuisance, in a few instances, still continues an injury to the interests and comfort of citizens, and a reasonable cause of complaint.

The collection of House offal under the continued contract has proved generally satisfactory. In some cases of apparent neglect it might have been more satisfactory by an early report by postal card to the Board.

The new contract for cleansing vaults and cess pools has shown good results.

The hot months of summer are unfavorable for this work, and in some cities the price is placed lower for the five cool months of the year, and higher for the seven warm months, that orders may be given in the most favorable season for the work.

There has been an apparent improvement in the condition of the street catch basins during the year.

In the collection of ashes, and with them filling low lands and stagnant pools, the city is making good progress in a most important work.

The pollution of Charles River and smaller water courses within the city has caused complaint and has received the attention of the Board. Progress is made each year in enforcing the rules of the Board in this respect.

A soap factory of long standing in Ward 1, in a location which had become central by a dense population settling

about it, has been voluntarily removed by the proprietor to a proper and desirable location in the suburbs, where, with improved apparatus, the business can be carried on without detriment to surrounding property or neighbors.

If this voluntary movement would be adopted by citizens—if establishing in the roomy suburbs of the city instead of in close neighborhoods such business as might cause discomfort or become a nuisance—it would greatly assist in accomplishing the work expected and required by the Board.

The smoke from a wood-working and planing mill in Ward 3 has caused inconvenience in the neighborhood as the business has increased and been the occasion of complaint to the Board. The proprietor hopes to remedy the difficulty by doubling the capacity of the boiler and fire-box.

Reported Cases of Disease Dangerous to Public Health.

DISEASES REPORTED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.	Fatal.
Typhoid fever.	4	3	3			1	1				6	1	19	2
Diphtheria	14	13	13	18	10	11	7	2		5	6	3	102	3
Scarlet fever.	1	2	1		4			3	10	1	2	4	28	7

Summary of nuisances and sources of disease where action has been taken:—

Stagnant water, 9; foul cellars, 10; defective drains, 30; new drains built, 7; cess-pools near wells, 6; cess-pools overflowing to street gutters or brooks, 13; vaults and cess-pools ordered cleansed, 62; vaults and cess-pools built, 23; vaults and cess-pools repaired, 8; vaults removed, 5; sewage on surface of land, 11; filthy yards, 22; manure removed, 8; pig pens, 8; soap factory removed, 1; sewage in cellar, 8; number of traps at sinks, 25; wells closed, 2;

wells closed by the owners, 2; wells analyzed, 2; hens in cellar, 4; fish market filthy, 2; vaults and cess-pools cleansed by the contractor, 536.

The organization of an independent Board of Health, with regular meetings for the consideration of health matters, has proved a great advance in this department of city work.

The visits to the various sections of the city and observations made have secured a knowledge of the facts and needs of the different localities which has enabled the Board to treat the various interests and complaints presented in an intelligent and satisfactory manner.

Respectfully submitted,

For the Board,
NATHAN MOSMAN,
Agent.

Compliments of
Daniel M. Hammond,
City Marshal.

CITY OF NEWTON.

ANNUAL REPORT

OF THE

CITY MARSHAL

OF THE

CITY OF NEWTON,

FOR THE

YEAR ENDING DEC. 31, 1885.



Newton:

PRESS OF THE NEWTON JOURNAL.

1886.

CITY MARSHAL'S REPORT.

OFFICE OF THE CITY MARSHAL,
WEST NEWTON, DEC. 31, 1885.

TO HIS HONOR THE MAYOR AND THE HONORABLE CITY
COUNCIL OF THE CITY OF NEWTON:—

The following report, showing the condition of the
Police Department, and the work done during the current
year, is most respectfully submitted:—

ARRESTS.

Number of arrests	.	.	.	.	.	.	.	485
Arrests on warrants	.	.	.	.	.	.	.	208
Arrests without warrants	.	.	.	.	.	.	.	277
Held for trial	.	.	.	.	.	.	.	433 ^a
Released	.	.	.	.	.	.	.	52
Females arrested	.	.	.	.	.	.	.	49
Foreigners arrested	.	.	.	.	-	.	.	265
Non-residents arrested	.	.	.	.	.	.	.	109
Minors arrested	.	.	.	.	.	.	.	110
Colored persons arrested	.	.	.	.	.	.	.	5

Of the five colored persons arrested three were women, and two were boys, all for assault and battery.

Arrested at Police Station, No. 1.	.	.	.	.	70
Arrested at Police Station, No. 2	.	.	.	.	40
Arrested at Police Station, No. 3	.	.	.	.	272
Arrested at Police Station, No. 4	.	.	.	.	103
					<hr/> 485

OFFENCES.

	Americans.	Foreigners.	total.
Assault and battery	21	23	44
Assault, felonious	1	1	2
Assault on an officer	1	1	2
Adultery		1	1
Breaking and entering.	3	1	4
Common beggars.		1	1
Common railer and brawler.		1	1
Contempt of Court	2	2	4
Cruelty to animals	3	4	7
Default warrants.		1	1
Disturbing the peace	35	33	68
Disturbing school	2		2
Disturbing public meeting	1		1
Drunkenness	56	142	198
Embezzlement	1		1
Evading car fare	6	3	9
Fast driving	2	1	3
Fraud	1	1	2
Gaming	3	10	13
Idle and disorderly	1		1
Insane	5	8	13
Indecency	3	3	6

	Americans.	Foreigners,	Total,
Larceny simple	13	2	15
Larceny felonious	1	1	2
Lewdness	1		1
Making bonfires	2	1	3
Neglected Children		1	1
Peddling without license		1	1
Rape	2		2
Refusing to assist an officer.		1	1
Robbery	1		1
Runaways	1		1
Stubborn children	5	3	8
Suspicion of larceny		4	4
Suspicious persons	2	2	4
Threatening bodily harm	1	1	2
Tramps	4		4
Trespass	2		2
Vagrancy	1		1
Violation of the City Ordinances	21	2	23
Violation of the Lord's Day		8	8
Violation of the dog law	1		1
Violation of the liquor law	4	10	14
Witnesses	1	1	2
	<hr/> 210	<hr/> 275	<hr/> 485

The females were arrested for the following offences: —

Assault and battery	7
Common railer and brawler.	1
Contempt of Court	1
Disturbing the peace	8
Drunkenness	13
Gaming	1

Insane	6
Larceny, simple	1
Larceny, felonious	1
Stubborn children	6
Lewdness	1
Violation of the liquor law	2
Witness	1
	<hr/>
	49

NATIVITY OF PRISONERS.

Ireland	212
United States	210
Canada	23
England	15
Germany	10
Scotland	6
Sweden	5
Russia	2
Italy	1
France.	1
	<hr/>
	485

NATIVITY OF FEMALE PRISONERS.

Ireland	24
United States	15
Canada	5
England	4
Germany	1
	<hr/>
	49

LOCAL POLICE WORK.

Arrested by Officers on duty at Newton . . .	94
Arrested by Officers on duty at Newtonville . .	16
Arrested by Officers on duty at Nonantum . . .	64
Arrested by Officers on duty at West Newton . .	132
Arrested by Officers on duty at Auburndale . .	23
Arrested by Officers on duty at Lower Falls . .	16
Arrested by Officers on duty at Newton Centre .	94
Arrested by Officers on duty at Newton Highlands	13
Arrested by Officers on duty at Upper Falls . .	33
	<hr/>
	485

The residents of Newton who were arrested resided as follows:

Newton	63
Newtonville	10
Nonantum	53
West Newton	88
Auburndale	30
Lower Falls	18
Newton Centre	66
Newton Highlands	20
Upper Falls	28
	<hr/>
	376

NATIVITY OF THE RESIDENTS OF NEWTON WHO WERE
ARRESTED.

Ireland	171
United States	155

Canada	.	.	.	.	.	.	20
England	.	.	.	.	.	.	12
Scotland	.	.	.	.	.	.	6
Sweden	.	.	.	.	.	.	5
Germany	.	.	,	.	.	.	3
Russia	.	.	.	.	.	.	2
France	.	.	.	.	.	.	1
Italy	.	.	.	.	.	.	1
							<hr/>
							376

OCCUPATIONS OF THE MEN ARRESTED.

Architects	.	.	.	.	.	.	1
Baggage-masters	.	.	.	.	.	.	1
Bar-tenders	.	.	.	.	.	.	2
Brass-finishers	.	.	.	.	.	.	2
Blacksmiths	.	.	.	.	.	.	13
Brewers	.	.	.	.	.	.	4
Carpenters	.	.	.	.	.	.	30
Clerks	.	.	.	.	.	.	10
Cigar-makers	.	.	.	.	.	.	1
Coachmen	.	.	.	.	.	.	4
Coopers	.	.	.	.	.	.	1
Engineers	.	.	.	.	.	.	2
Engravers	.	.	.	.	.	.	1
Expressmen	.	.	.	.	.	.	1
Farmers	.	.	.	.	.	.	7
Firemen	.	.	.	.	.	.	1
Florists	.	.	.	.	.	.	2
Gardeners	.	.	.	.	.	.	1
Hostlers	.	.	.	.	.	.	9
Horse-clippers	.	.	.	.	.	.	1

Harness-makers	.	.	.	.	.	4
Hack-drivers	.	.	.	.	.	1
Junk dealers	.	.	.	.	.	3
Laborers	.	.	.	.	.	183
Masons	.	.	.	.	.	12
Machinists	.	.	.	.	.	8
Mill-hands	.	.	.	.	.	20
Moulders	.	.	.	.	.	1
Organ-grinders	.	.	.	.	.	1
Painters	.	.	.	.	.	13
Peddlers	.	.	.	.	.	3
Plumbers	.	.	.	.	.	3
Paper-hangers	.	.	.	.	.	2
Physicians	.	.	.	.	.	1
Publishers	.	.	.	.	.	2
Reporters	.	.	.	.	.	1
Sailors	.	.	.	.	.	1
Shoemakers	.	.	.	.	.	7
Soldiers	.	.	.	.	.	1
Stable-keepers	.	.	.	.	.	1
Teamsters	.	.	.	.	.	29
Traders	.	.	.	.	.	10
Tanners	.	.	.	.	.	1
Upholsterers	.	.	.	.	.	2
Wool-sorters	.	.	.	.	.	1
						<hr/> 405
Females	.	.	.	.	.	49
Minors with no business	.	.	.	.	.	31
						<hr/> 485

LODGERS.

Station No. 1	427
Station No. 3	786
Station No. 4	225
	<hr/>
	1438

NATIVITY OF LODGERS.

United States	616
Ireland	574
England	114
Canada	54
Germany	33
Scotland	20
Sweden	10
France	10
Italy	5
Egypt	2
	<hr/>
	1438

REPORTS MADE BY PATROLMEN TO THE CITY MARSHAL.

Accidents	46
Buildings erecting	124
Buildings found open and secured	18
Cases investigated	80
Defective street lights	246
Defective sidewalks	18
Defective streets	12
Defective water pipes	5

Disturbances suppressed	51
Fire alarms	39
Fires extinguished without alarm	16
Intoxicated persons helped home	75
Lost children found and restored to friends	8
Nuisances	11
Sick and injured persons assisted	15
Stray teams put up	16

MISCELLANEOUS.

Amount of property reported stolen in the city	\$3062 00
Amount recovered, stolen in and out of the city	2258 50
Witness fees earned by officers and paid by the Clerk of Court to City Treasurer	702 62
Amount of fines imposed by Court	1900 00
Imprisonment imposed by Court,	17 years, 4 months.
Cases reported to Medical Examiner	11
Number of extra duties done by officers	208
Number of search warrants for liquor served	11
Number of seizures	10
Number of gallons of liquor seized	176
Number of gallons of liquor delivered to Chief of State Police	121

LIQUOR LAW.

Of the fourteen cases for violation of the liquor law, nine were convicted, the fines amounting to \$750.00, with the costs of Court in addition.

Five were acquitted.

Experience convinces one, that evidence which will bring conviction in most any other case of violation of the laws, is not of sufficient strength to convict a person of the offence of violation of the liquor law.

It is one of the most difficult undertakings to obtain witnesses, outside of the police force, to testify in liquor cases, so that if a conviction is obtained, the Officers have only themselves to thank for it.

If the liquor law could be amended so that the witness fees in liquor cases could be increased, or part of the fines, imposed by Court, could be paid to the citizen making the complaint, (as in the dog law,) or, imprisonment imposed every time a conviction was obtained, I think the Officers who have the business to deal with, would be greatly assisted.

Amount of appropriation for police service	
in 1885	\$19,500.00
Amount expended	19,498.17
	<hr/>
Balance	\$1.83

PROBATION OFFICER.

Acting as Probation Officer, I have taken four persons on probation. One was defaulted by Court and paid a fine, the other three have their probations still pending.

POLICE TELEPHONE.

In December 1884 a police telephone was constructed, connecting the four Police Stations, the residence of the Sergeant and the residence of the City Marshal. It is in

good order and very useful in conducting the business of the department.

The horse connected with the department is in good condition, so are the carriages and harnesses.

STATION HOUSES.

Station No. 1 has been remodelled and painted.

Stations 2, 3 and 4 are in good repair. Water closets are needed at Stations Nos. 1 and 2.

At Station No. 3 where there are six cells, four kinds of locks are used, necessitating the use of as many different keys; if one kind of lock could be used, on all the cells, it would be a great improvement.

Since the last report the Force has been increased by the appointment of two patrolmen, making the number of Patrolmen at present 16.

One member of the Force has been reprimanded during the year for violation of the Rules and Regulations governing the department. Otherwise the members have been diligent and attentive to their duties.

DANIEL M. HAMMOND.

City Marshal.

CITY OF NEWTON, MASS.

REPORT

OF THE

WATER BOARD,

FOR THE

YEAR ENDING DEC. 31, 1885.



Newton :

PRESS OF THE NEWTON JOURNAL.
1886.

CITY OF NEWTON.

IN COMMON COUNCIL, Jan. 25. 1886.

Accepted and sent up.

ALBERT S. GLOVER, *Clerk*.

IN BOARD OF MAYOR AND ALDERMEN, Jan. 25. 1886.

Accepted in concurrence.

I. F. KINGSBURY, *Clerk*.

THE NEWTON WATER WORKS.

Organization for 1885.

WATER BOARD.

EDWARD W. CATE, *President.*

FRANCIS A. DEWSON.

DR. CHAS. FRED CREHORE.

ALDERMAN NOAH W. FARLEY.

COUNCILMAN ALBERT F. UPTON.

ALBERT S. GLOVER, *Water Registrar and Clerk of Board.*

ALBERT F. NOYES, *Engineer of Board.*

H. NELSON HYDE, Jr., *Superintendent.*

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ALDERMAN GEO. PETTEE.

COUNCILMAN GEO. D. DIX.

ALBERT S. GLOVER, *Water Registrar and Clerk of Board.*

ALBERT F. NOYES, *Engineer of Board.*

H. NELSON HYDE, Jr., *Superintendent.*

REPORT OF THE WATER BOARD.

WATER BOARD OFFICE, }
WEST NEWTON, January 22, 1886. }

*To His Honor the Mayor and City Council of the City of
Newton :*

In submitting, in accordance with the Water Ordinance, their report of the doings of the Water Department during the year ending December 31, 1885, the Water Board desire to say that they have not deemed it expedient to touch in detail upon the routine work of the department. This work during any one year cannot, of necessity, materially differ from the work of any other year, and can be fully understood from an examination of the tables herewith presented.

During the past year the constitution and organization of the Board has remained the same as at the time of making our last report; all the officers of the Department have been retained and have performed good and efficient work in their several positions.

In the construction of our works, from the peculiar composition of the city, it was necessary to lay long lengths of main pipe to connect our different villages; these sections laid without regard to the income to be obtained from them,

and at great expense, have been and will be for a long time to come a great burden to our interest account; were it not for them our works would, by this time, be self-supporting; it should consequently be a source of gratification to the tax-payers that, notwithstanding these unfavorable conditions, our present financial standing makes such a favorable showing. By reference to the financial statement on page 33 of this report, it will be seen that our deficit has been gradually reduced from \$35,799.52 in 1878 to \$13,126.56 at date.

From present indications, and making a liberal allowance for necessary construction expenses in the meantime, the deficit will be entirely obliterated by the year 1890; then with our superior plant including the very large mileage of main pipe laid, from which without expenditure by the city a large income is sure to be derived, as the city becomes built up, the prospects of our works will compare very favorably with those of any department known to the Board.

ADDITIONAL SUPPLY.

This is the most important matter with which the Board has had to deal during the year. At the time of our last report the Engineer was engaged on experiments to determine the most promising source for an additional water supply. He continued in this work till June 15. Borings were made to determine the stratification on both sides of the river from the Pumping Station to and into the Appleton Meadows, and upon the result of his investigations the Engineer submitted to the Board the following report:

CITY OF NEWTON,
OFFICE OF CITY ENGINEER,
WEST NEWTON, MASS., June 26, 1885. }

To the President and Members of the Water Board :

GENTLEMEN: In accordance with your instructions "To examine into and report to the Water Board with my recommendations as to the best method of increasing our water supply," I would respectfully submit the following report and recommendations.

In the consideration of this question four schemes have presented themselves.

The first and least expensive is to take water direct from the river.

The second is to take the water after having been filtered by some one of the many ways which can be mentioned.

The third to take the water which is stored in or flowing through the ground and

The fourth to look for water from some other source.

In view of the slight taste and brownish color of the water of the river and the constant liability of its becoming to a certain degree polluted, I doubt if the citizens would be willing to use it except in cases of extreme necessity; in my opinion this source of supply should be considered only as a last resort.

In order to filter the river water so as to free it from its brownish color and from any pollution which might be contained in it, the process must be very slow and the filter of large area; I doubt if the results would warrant the expense at the present time and this source, I think, should only be resorted to in case of pollution or of short supply of ground water, in which case the filtered river water would be preferred.

The supply of pure, cold spring or ground water, which is so abundant in the vicinity of the Pumping Station, can, in my opinion, be obtained at a comparatively slight expense and would not warrant going elsewhere for a supply for some years to come. This period of time being dependent, of course, upon the rapidity with which the south part of the city and the water shed of the upper portion of the river became populated.

Borings made from time to time in the vicinity of the Pumping Station, on the Newton side of the river, showed that a stratum of coarse sand or gravel underlaid the quicksand and that through this stratum there must be a large flow of water. As soon as spring opened borings were made extending from Needham street to and beyond Nahanton street in order to determine the character of the sub-soil. These borings showed the previous examinations to be substantially correct. At a depth of from thirty to fifty feet from the surface a stratum of coarse sand, gravel and hard pan from one to twelve or more feet in thickness was found to overlay what seemed to be the bed rock. Above this stratum of gravel there is a stratum of quicksand from two to thirty or more feet in thickness.

As the subsoil of the water-shed of the Charles River at this point, extending from Crystal Lake on the north, and Bald Pate and Oak Hills on the east, is of the same general nature, there is no doubt of a large flow of water through this sub-stratum of gravel, which is protected from surface pollution by the thick layer of fine compact sand, the filtration through which must be very slow and practically perfect. The result of these examinations would indicate the practicability of obtaining such additional supply as may be necessary on the Newton side of the river within the limits of our own property.

The thick layer of quicksand between the levels of high and low water in the present filtering basin would render impracticable the building of a filtering conduit, gallery or basin on the Newton side of the river; and beyond the limit of economy to build large brick wells to the depth of the gravel.

I would therefore recommend that a series of tube wells be driven from the Pumping Station and extending southerly to the Goddard property. These wells to be connected to a conduit pipe of graduated size, laid below the level of the ground water and connected with the high pressure pump in the Station, and also carried to the pump-well, entering it below low water mark.

By this arrangement the pipes would syphon the water to a level equal to grade 85, practically the limit of the draught of the large pumps. Should more water be wanted the connection of the high pressure pump with the Reservoir could be shut off and by pumping into the pump-well or reservoir as may be desired, the ground water can be drafted upon to grade 67. The amount of water to be obtained by this arrangement I am unable to state, but have no doubt it will equal six or more hundred thousand gallons per day by flowing and one and one-half million gallons per day by pumping and I have reason to believe it will exceed this amount.

After six weeks of continuous pumping during the months of August and September of the year 1883 the consumption of water was about 3,000,000 gallons more than the supply and reduced the storage to within less than 1,000,000 gallons of low water mark in the reservoir.

At the present time there are about 300 more services laid, hence the consumption under similar conditions would be greater than then, and during the past week the supply

has scarcely equalled the demand. Should the summer prove dry and warm unless some other means of supply are resorted to we will undoubtedly be short of water.

I would therefore respectively recommend that steps be immediately taken to obtain additional supply and that an appropriation of \$15,000 be made for that purpose.

Respectfully submitted,

[Signed.]

ALBERT F. NOYES,
City Engineer.

This report was accepted, and in accordance with its recommendations the Board asked and obtained from the City Council an appropriation of \$15,000 for the prosecution of the work. Upon recommendation of the Engineer various contractors were asked to submit plans for obtaining a water supply through driven wells, and proposals for work in accordance therewith. These plans and specifications were all carefully considered by the Board and it was finally decided to accept the proposal of John A. Gill, of Boston, for driving a series of two and a half inch pipes in the grounds of the city on the Newton side of the river extending southerly from the Pumping Station to the Goddard property.

After seven wells had been driven, the Engineer not being satisfied with the results obtained, the Board, upon his recommendation, made a contract with the Manhattan Artesian Well Company, the terms of which are substantially as follows :

Said Company agrees to furnish, through a series of pipe wells, not less than four inches, each, in diameter, placed in land of the city near the Pumping Station on the Newton side of the river, a supply of water of not less than 250,000 gallons per day of twenty-four hours; the water to be pumped with a high pressure pump in the basement of the

Pumping Station or by a pump similarly situated as to elevation.

It is further agreed that unless said Company shall succeed in furnishing said 250,000 gallons per day, the amount to be determined by the quantity pumped from the wells driven on the last day's pumping in a thirty-one day's test to be made, no charge shall be made the city for the work performed.

It is further agreed, also, that upon the successful completion of this contract the city shall have the option of contracting with said Company for a further supply, not to exceed 1,500,000 gallons daily, upon the terms of the agreement already made.

Work under this contract was commenced November 30, and although, to some extent, interfered with by the weather it has been pushed to a point where the contracting Company expects the full amount contracted for has been secured.

These wells are now being developed, and tests will soon be made to ascertain whether they yield the specified quantity.

Whether upon the completion of this work the Board shall avail itself of the provision in the contract allowing it to secure a still further additional supply is a question still under consideration.

HIGH SERVICE.

The matter of a High Service Supply has received considerable attention from the Board during the year, and the Engineer, at the request of the Board, has been making a special study of the matter; but while such a service would undoubtedly be of great accommodation and convenience to certain districts now only partially supplied, the Board feels

that the expense necessary for the proper development of such a work would scarcely, at the present time at least, be warranted by the results obtainable therefrom.

MAIN PIPE.

Although having in stock quite a supply of main pipe it was deemed wise by the Board, in November, to take advantage of the favorable state of the market by purchasing one hundred and fifty tons additional. Proposals were accordingly solicited and received and in November a contract was made with the Warren Foundry & Machine Company to furnish on or before April 1, next, the following quantities, at the prices stated, delivered at Newtonville; 44 tons of 4 in. at \$28.30 per ton; 58 tons of 8 in. at \$28.30 per ton; and 48 tons of 12 in. at \$27.60 per ton; these prices are the lowest for which main pipe was ever purchased for the department.

SERVICE PIPES.

Observations made from time to time during the past two years led the Board to the conclusion that it would be expedient to change the kind of pipe used for services. Tar-coated wrought iron pipe was used till 1883, when enamelled iron was substituted therefor. At the beginning of the working season of 1885, the Board, forming its judgment from experiments and observations made under its direction and from information obtained by correspondence with officials of other departments and from a report upon service pipe issued by the New England Water Works Association decided to recommend to water takers the use of lead pipe, leaving with them, however, the selection, if they had a preference.

As a result of this recommendation twenty-three per cent. of the services laid during the year were of lead. The

Board would prefer to see a much more general adoption of their recommendation, believing, thoroughly, that by the use of lead for service pipe the interests alike of the consumers and the department would best be served.

REBATES.

One of the chief causes of discontent on the part of the water takers and of friction between them and the department has been removed by the action of the City Council in adopting the recommendation of the board that tenants vacating houses on which water bills had been paid in advance for the year should receive back the water rental for the unexpired term, less the charge for cutting off the water. The board made the recommendation only after due reflection, and feel convinced from the working of the plan during the short time that it has been in operation that their judgment in the matter has been correct, and that their action will be universally approved.

SPECIAL RATES.

The board received during the year applications for special rates for metered water from parties claiming concession on the ground of being large consumers. While it is true that the argument of wholesale consumption is entitled to certain weight in establishing a price for the water used, the board feel, as stated in its report of Dec. 11, to the City Council upon the petition of Joseph Lee for a special rate for the Woodland Park Hotel, that a weightier argument and the one if any that should secure a special rate is that extraordinary consumption usually comes from some business enterprise, the establishment and development of which it may be expedient to encourage within the city limits. Even in such

cases, however, the board feel that the responsibility for a concession should be assumed by the City Council and not the board. The regular rate for metered water is 35 cents per thousand gallons. From this rate there are three deviations, viz: a special rate of 16 2-3 cents to the Newton Cemetery Corporation; one of 21 cents to the B. & A. R. R. for its standpipe at Riverside and one of a sliding rate of from 35 cents to 12 cents, depending upon the consumption, to the Nonantum Worsted Company; all of these were granted by water committees of the City Council before the establishment of this board. It would be wise, if, as a result of the consideration of this matter, now before the City Council in the matter of Mr. Lee's petition, it should be decided to amend the ordinance and provide for a special meter rate, to do so in such manner as shall include the three cases above mentioned.

THE USE OF METERS.

The established policy of the department in encouraging the use of meters meets with the continued approval of the board, not only because, in the opinion of the board, the sale of water by measure is the most equitable and satisfactory method of its disposal, but also for the reason that meters are an invaluable auxiliary in the proper administration of that most important branch of water works management, the suppression of water waste. The board have been for some time considering the question of recommending a more general use of meters even than now exists; and, while believing that possibly at the present time there may not be a necessity for requiring all services supplying bath-rooms to be metered, they feel that in the near future such a plan, or an approximation to it, will be deemed expedient.

METER ROOM.

Since the establishment of the works the department has labored under a serious disadvantage from the lack of proper facilities for testing its meters, and in making important tests has depended upon the courtesy of other departments. This obstacle to the successful management of our large and growing meter department has, during the past year, been removed; and, under the direction of the Registrar, there has been fitted up in the basement of the City Hall a room especially designed for testing meters suitably equipped with the necessary apparatus therefor. The Registrar is at present at work upon a test of the different kinds of meters in use by the city for the purpose of determining their value to the department in the performance of the work for which they are designed.

THE WATER ORDINANCE.

The board feels that the ordinance governing this department should receive a thorough revision. According to the understanding of the Board the ordinance now in force was established by recommendation of the original Water Commissioners at the completion of the construction of the works and has received scarcely any attention since that time. It was probably not expected by its framers that it would long remain in force, but that it would serve its purpose temporarily and be amended from time to time as its defects were developed by knowledge of the needs of the department acquired through experience in the maintenance of the Works. The Board respectfully recommends that the ordinance be revised.

QUALITY OF WATER.

The Board feels that the water-takers have a special cause for gratification in the purity of the water as shown by

recent analyses. Always of high rank as water for domestic use, especially during the past year has its good quality been manifested. In August last by direction of the Board the Registrar caused three samples of the water (one from the filter basin, one from pipes driven in the filter basin, and one from pipes driven in connection with the additional supply) to be analyzed by Prof. Wood, of the Harvard Medical School, a recognized authority in the matter of water analysis. The results of these analyses were as follows:

[FIGURES EXPRESS PARTS PER 100,000 OF WATER.]

LOCATION.	FREE AMMONIA.	"ALBUMINOID" AMMONIA.	CHLORINE.	RESIDUE.			HARDNESS.
				Fixed.	Volatile.	Total.	
From Pipes in Filter Basin.	0.0004	0.0008	0.40	1.90	2.20	4.10	1°
From Filter Basin.	0.0002	0.0006	0.40	2.30	1.70	4.00	1°
From Pipes on "Add'l Supply."	0.0002	0.0004	0.40	3.70	3.00	6.70	2°

It is a well known fact that the contamination of a water by organic matter and especially sewage is indicated by the quantity of albuminoid ammonia developed by its analysis; a rule laid down by Mr. Wanklyn, the water expert, and quoted by Dr. Austin, of Boston, in his work on Water Analyses is that "If the albuminoid ammonia amounts to .002 or to less than .005 parts per one hundred thousand the water belongs to the class of very pure water. Albuminoid ammonia above one hundredth part per million begins to be a very suspicious sign, and over fifteen thousandths ought to condemn the water absolutely."

It will be noticed that the least favorable of the analyses quoted above shows albuminoid ammonia to exist in such small quantity that it could be increased six hundred per cent. and still, under the above rule, be very pure water and twelve hundred per cent. even before "beginning to have a very suspicious sign." As a matter of still further interest it may be said that the published analysis of the famous Everett Spring water shows that it contains more than eight times the quantity of albuminoid ammonia that is shown by the least favorable of the above quoted analyses.

GUARANTIES ON EXTENSIONS.

As a matter of information the following statement is given of the percentage of income received during the past year on the cost of extensions laid since 1879.

From extensions of 1880, 8.2 per cent. of cost.

"	"	"	1881, 7.8	"	"	"	"
"	"	"	1882, 6.5	"	"	"	"
"	"	"	1883, 5.0	"	"	"	"
"	"	"	1884, 5.0	"	"	"	"

The Board are now considering the matter of recommending to the City Council that there be laid without guaranties several extensions of main pipe to secure a better circulation of the water and to relieve the department of the expense necessitated by the frequent flushings now required.

WATER BOARD OFFICE.

In the office of the Board at City Hall several improvements have lately been made, notably that of the provision of a large book-case for the proper filing of the reports of the different Water Departments received by the Board. These reports, expressing as they necessarily do the varied ideas

and experience of men versed in water works management are of very great value and the Board feel that great attention should be given to the matter of securing them, particularly those of the larger cities, and in keeping them in convenient shape for the use of the Board, the City Council, or any citizens who may desire to refer to them.

CONDITION OF THE WORKS.

The works are in a very satisfactory condition. The Pumping Station has needed and received but little attention during the past year. About the only work being some slight repairs to the roof.

The engines and boilers are in good condition, the only repairs to them necessary having been the relining of the furnace doors and the procurement of a new valve spring for the high pressure pump.

The grounds about the Station have been neatly kept by the Superintendent; the trees planted three years ago are growing well and the whole surroundings of the building are much better in appearance than was the case a few years ago.

At the filter basin no work has been required except that necessary for the proper protection of the water against contamination from vegetable growth; this work has required great care and has only been done at considerable expense. During the past summer to prevent trespassing upon the basin grounds the Board voted to close them to the public and posted notices warning people that all trespassing would be punished. This action had the desired effect and no further trouble was experienced.

The reservoir is in good condition, and with the surroundings has had the usual care bestowed upon it. The Board is now considering a recommendation of the Superin-

tendent that the driveway around the reservoir be gravelled; should the driveway be thus improved a saving would doubtless be thereby made in the cost of its maintenance.

APPENDIX.

Appended will be found in detail a complete description of the work performed by the department during the year with a statement of its receipts and expenditures and other matters of interest and information.

CONCLUSION.

In conclusion the permanent members of the board desire to place upon record their appreciation of the valuable services rendered to the department by their colleagues of the City Council, Alderman Farley and Councilman Upton. In their retirement from the board the department loses two faithful, earnest and conscientious public servants.

The board also desire to express their gratification at the harmonious relations that have always existed between them and the City Council, and their sincere appreciation of the courtesy with which their recommendations have invariably been considered.

For the Newton Water Board.

EDWARD W. CATE, *President*.

IN WATER BOARD, }
January 22, 1886. }

Accepted and ordered transmitted to City Council as report of Water Department for the year 1885.

Attest: ALBERT S. GLOVER, *Clerk*.

DETAILS OF EXTENSIONS MADE IN 1885.

STREET.	WARD.	LOCATION.	LENGTH OF EACH SIZE IN FEET.				GATES.	HYDRANT.	CUBIC YARDS OF ROCK.
			12-IN.	8-IN.	6-IN.	4-IN.			
Bellevue	1	Extended west.....	-	-	350	170	-	-	-
Private way off Bennington.....	1	From Bennington, south.....	-	-	-	-	-	1	-
Bowdoin	5	From Forest, north	-	-	477	-	-	-	-
Boylston.....	5	Extended east.....	-	-	188	-	-	-	77.60
Private way off Boylston.....	5	From Boylston, north	-	-	-	390	1	-	-
Private way off Central	4	From Central, east	-	-	-	187	-	-	-
Chandler.....	2	From Bridge, west.....	-	-	142	-	-	-	-
Chestnut.....	3	Extended south	505	-	-	-	1	1	52.00
Court.....	2	Extended east	-	-	-	237	-	-	-
Crafts	2	From Washington, west	-	-	480	-	1	-	-
Crafts	2	Extended west.....	-	245	-	-	-	-	-
Crescent.....	1	From California, south.....	-	-	192	-	1	-	-
Crafts and North.....	2	Extended west and north.....	-	340	1933	-	1	3	-
Farlow Park.....	7	For Park supply.....	-	-	24	455	3	-	-
Faxon	1	From California, south.....	-	-	406	-	1	-	-
Fern	4	Extended east.....	-	-	-	225	1	-	-
Private way off Floral.....	5	Extended north	-	-	-	207	-	-	3 70
Floral Avenue and Hyde.....	5	Extended north.....	-	-	25	244	-	-	6.99
Total, Carried Forward			505	585	4217	2115	10	5	140.20

DETAILS OF EXTENSIONS MADE IN 1885 (Continued).

STREET.	WARD.	LOCATION.	LENGTH OF EACH SIZE, IN FEET.				GATES.	HYDRANTS.	CUBIC YARDS OF ROCK.
			12-IN.	8-IN.	6-IN.	4-IN.			
Brought Forward.....			505	585	4217	2115	10	5	140.20
Freeman.....	4	Extended north.....	-	-	281	-	-	1	45.08
Greenwood Avenue.....	3	From Mt. Vernon, north.....	-	-	-	337	1	-	-
Hawthorne.....	2	Extended north.....	-	-	-	203	1	-	-
Highland and Lenox.....	3	Extended north and east.....	-	-	429	-	1	-	-
Hollis.....	1	From Centre.....	-	-	-	605	2	-	-
Hyde Avenue.....	7	Extended south.....	-	-	256	-	-	-	67.60
Irving.....	6	Extended south.....	-	-	95	-	-	-	-
Lincoln Court.....	2	From Adams, west.....	-	-	478	133	1	-	-
Linwood Avenue.....	2	From Walnut, west.....	-	-	1126	173	1	1	12.50
Murray and Highland.....	2	Extended south and west.....	-	-	-	-	1	1	-
Orris.....	4	From Lexington, east.....	-	-	507	-	1	-	21.
Parker.....	6	Extended south.....	-	-	919	-	-	1	1.1
Prospect.....	3	Extended south.....	-	-	730	-	-	-	29.
Ridge.....	6	From Parker, east.....	-	-	352	-	1	-	208.76
Station.....	6	Extended east.....	-	1497	-	-	-	2	-
Vista Avenue and Aspen.....	4	Extended south and west.....	-	-	415	-	1	1	-
Webster and Crescent.....	3	Extended west and south.....	-	-	1242	-	1	1	-
Walnut.....	6	From Beacon, north.....	345	-	-	-	-	-	-
Total.....			850	2082	11,047	3626	21	13	525.24

Length of Main Pipe laid during the year 1885, 17,605 feet.

DESCRIPTION OF MAIN PIPE LAID TO DEC. 31, 1885.

DATE OF LAYING.	LENGTH OF DIFFERENT SIZES, IN FEET.							TOTAL.
	24-IN.	20-IN.	16-IN.	12-IN.	8-IN.	6-IN.	4-IN.	
Laid previous to Jan'y 1878,	761	18,012	2,457	58,932	53,321	116,815	23,235	273,533
Laid during 1878.....	-	-	-	180	180	8,391	2,085	10,656
Laid during 1879.....	-	-	-	1,083	947	13,148	3,122	18,300
Laid during 1880.....	-	-	-	754	1,484	9,728	4,053	16,019
Laid during 1881.....	-	-	-	-	1,484	7,449	2,483	10,416
Laid during 1882.....	-	-	-	-	1,211	10,416	2,605	14,232
Laid during 1883.....	-	-	-	1,242	2,656	7,941	2,304	14,143
Laid during 1884.....	-	-	-	242	-	8,951	983	10,176
Laid during 1885.....	-	-	-	850	2,082	11,047	3,626	17,605
Total	761	18,012	2,457	63,103	62,305	193,886	44,496	385,080

Total length of main laid to date 385,080 feet or 72.93 miles.

DETAILS OF SERVICES LAID IN 1885.

DATE OF LAYING.	IRON PIPE.						LEAD PIPE.						TOTAL.									
	6-IN.		4-IN.		2-IN.		1½-IN.		1-IN.		¾-IN.			½-IN.								
	No.	Length in feet.	No.	Length in feet.	No.	Length in feet.	No.	Length in feet.	No.	Length in feet.	No.	Length in feet.		No.	Length in feet.							
January.	2	112.90	..	..	..	..	..	2	112.90						
February.	1	114.00	..	..	..	..	1	41.90	..	..	..	..	..	2	155.90
March.	1	57.05	..	..	..	..	..	1	57.05						
April.	1	82.60	13	562.70	2	130.00	16	804.30						
May.	1	35.00	22	1098.50	1	65.30	24	1196.80						
June.	4	151.15	23	721.05	1	27.20	..	6	532.45	35	1544.75					
July.	1	428.00	..	144.00	1	16.30	2	322.20	16	671.35	..	107.25	4	813.70	25	2621.75				
August.	1	34.20	13	518.75	1	163.70	16	846.50				
September.	1	6.00	13	742.70	1	54.25	2	126.40	8	435.60	5	247.00	30	1611.95
October.	284.00	..	58.10	3	14.80	7	185.50	1	289.40	..	220.25	7	527.05	1	58.70	19	1637.80
November.	3	20.00	9	152.55	1	163.25	1	92.10	2	216.20	..	17.45	16	661.55	29	1116.20
December.	1	45.10	25	706.40	1	29.80	2	253.50	..	81.40	29	1116.20	
Total.	1	114.00	2	462.20	1	473.10	2	80.40	14	625.75	145	5571.35	4	534.10	5	575.80	33	3135.50	8	795.25	215	12367.45

Total Iron, 7526.80 feet.

Total Lead, 5040.65 feet.

Supply Pipe Laid in 1885.

STREET.	WARD.	LOCATION.	LENGTH IN FT. OF DIFFERENT SIZES.		TOTAL.
			2-IN.	1-IN.	
Beacon . . .	6	From Walnut, West	153		153
Carlisle . . .	6	From Station, East	201		201
Hyde	6	From Lake, South	102		102
Prince	3	From Temple, South	307		307
Off River . . .	3	From River, North		162	162
Off Walnut . .	6	From Walnut, West	260		260
Total			1,023	162	1,185

Number and Lengths of Services Laid to Date.

DATE OF LAYING.	NUMBER.	LENGTH IN FEET.
Laid to January, 1878	1,497	104,065
During 1878	188	15,449
During 1879	232	13,670
During 1880	228	18,039
During 1881	267	14,675
During 1882	169	10,904
During 1883	159	11,709
During 1884	179	12,113
During 1885	215	12,367
Total	3,134	212,991

Statement of Services in Use December 31, 1885.

Number of services laid throughout the city December 31, 1885	3,134
Number of services shut off for non-pay- ment, remaining, of December 31, 1884 9	
Number of these turned on during the past year 3	
Leaving of these still shut off	6
Number of services shut off for non pay- ment during the past year 1	
Number of these turned on again during the past year 1	
Leaving of these still shut off	0
Number of services shut off by request, remaining off December 31, 1884 . . 88	
Number of these turned on during the past year 26	
Leaving of these still shut off	62
Number of services turned off by request during the past year 198	
Number of these turned on again during the past year 119	
Leaving of these still shut off	79
Number of services once turned on, re- maining off December 31, 1885 . . .	147
Number of services never turned on . . .	122
Total number services remaining off December 31, 1885	269
Leaving number services in use Decem- ber 31, 1885	2,865

The following meters were set up in 1885: Crown 127, Worthington 2, and Union Piston 1.

CLASSIFICATION OF METERS NOW IN USE.

DESCRIPTION.	SIZES.						TOTAL.
	$\frac{1}{2}$ -IN.	$\frac{5}{8}$ -IN.	$\frac{3}{4}$ -IN.	1-IN.	1 $\frac{1}{2}$ -IN.	2-IN.	
Worthington.....		301	6	3			311
Crown.....	396		4	11	1	2	415
Union Piston.....		194	19	1			214
Union Rotary.....		44	2	4			50
Spooner			2				2
Desper.....		3					3
Boston.....			1				1
Equitable.....		1					1
Indicator.....				1			1
Total.....	396	543	34	20	1	2	998

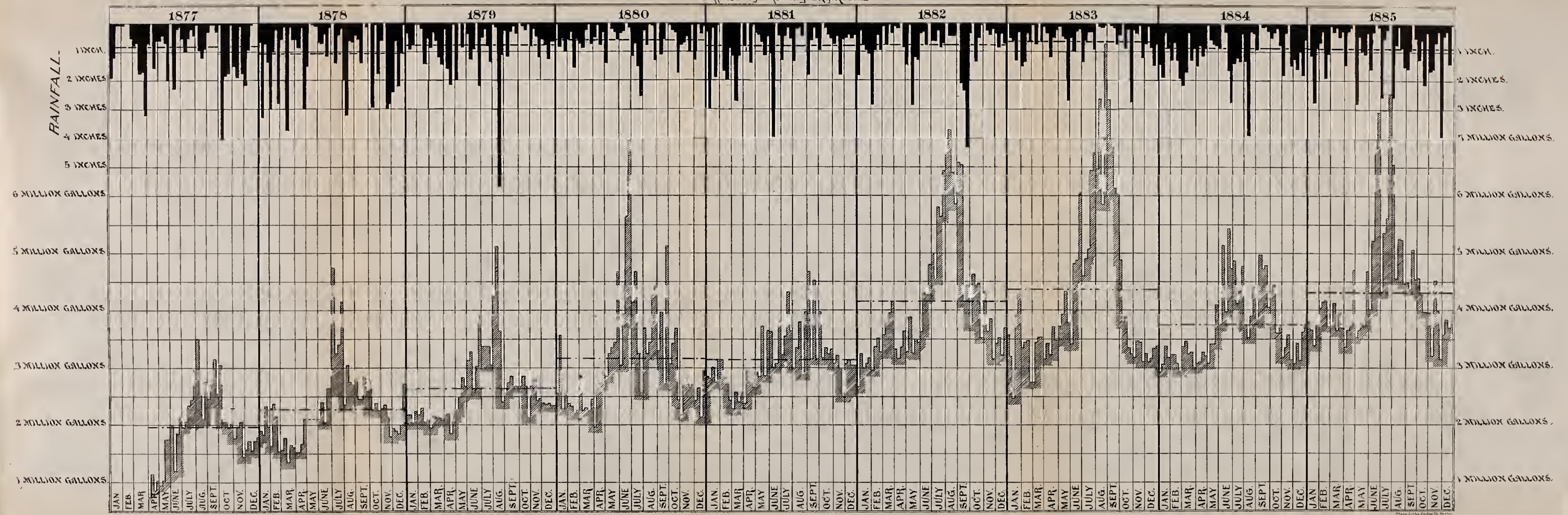
WATER PUMPED AND CONSUMED.

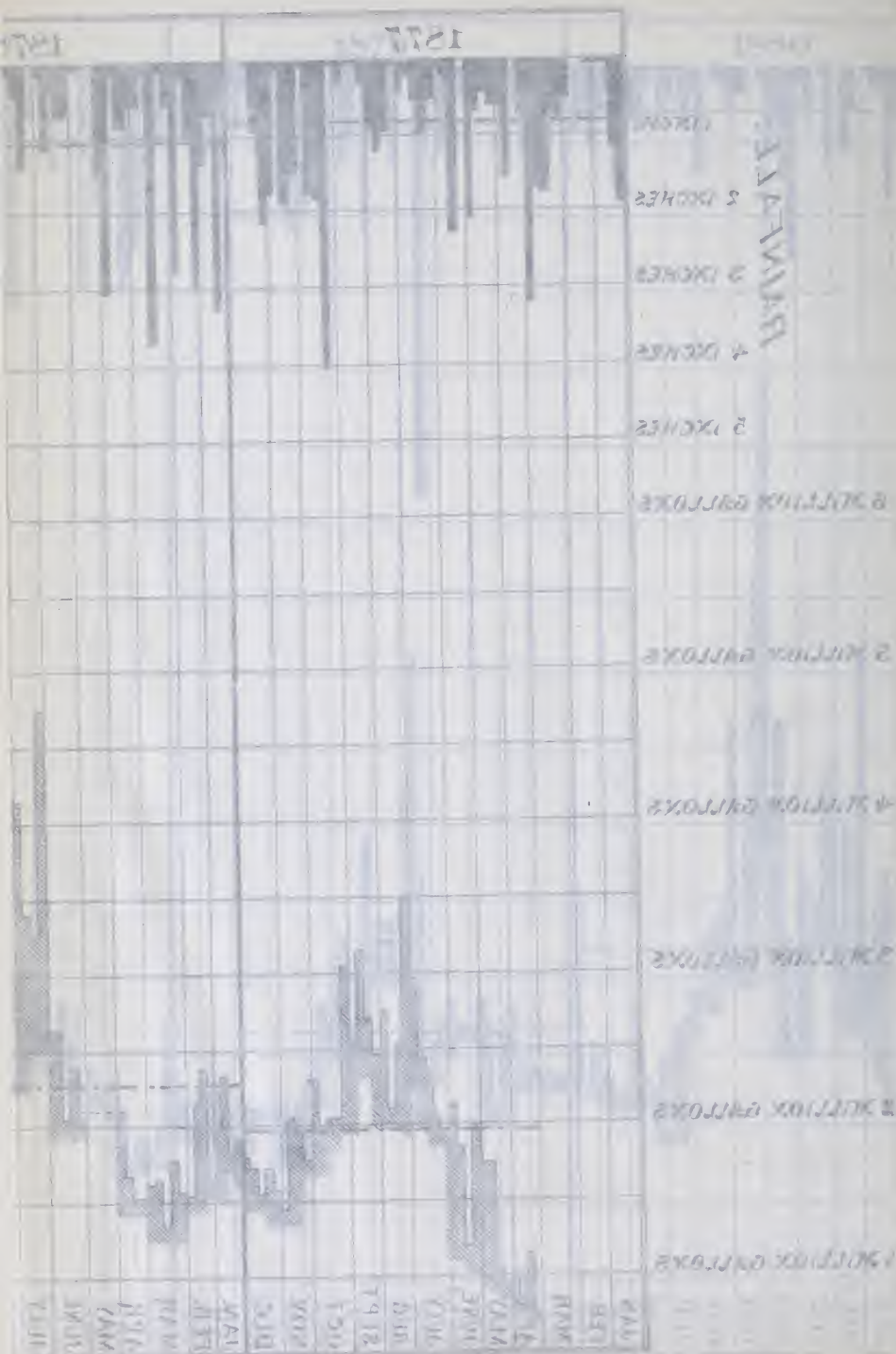
There were pumped during 1885, 222,674,916 gallons of water, about 26,000,000 more than in 1884. During the year the reservoir has been kept at an average elevation of 15.72 feet, representing a supply of about 12,500,000 gallons. The following table shows the average daily consumption during the past eight years, and the accompanying table, prepared by the City Engineer, shows the same graphically, together with the rainfall during the same time.

NEWTON WATER WORKS.

DIAGRAM SHOWING WEEKLY CONSUMPTION AND RAINFALL FROM 1877 TO 1885 INCLUSIVE.

Compiled by the City Engineer.





DETAILS OF WATER CONSUMPTION, 1885.

Total consumption of water for year, 224,463,320 gallons. Divided as follows :

Family use (including private stables and hose on lawns and gardens), 80% or.....179,500,000 galls.
 Manufactories, stores, churches, etc., 9% or..... 20,000,000 galls.
 City use (including hydrants, street sprinkling, drinking fountains and public buildings), 11% or 25,000,000 galls.

WATER TAKERS BY WARDS.

Ward.	Families using by faucet.	Families using by meter.	Total.	Persons using by faucet.	Persons using by meter.	Total.
1	371	136	507	1,952	758	2,710
2	347	195	542	1,798	1,056	2,854
3	280	153	433	1,357	914	2,271
4	328	112	440	1,598	909	2,507
5	269	77	346	1,223	410	1,633
6	196	196	392	992	1,209	2,201
7	208	176	384	1,060	1,059	2,119
Totals	1,999 (or 66%)	1,045 (or 34%)		9,980 (or 61%)	6,315 (or 39%)	

Total families, 3,044. Total individuals using, 16,295.

Services metered, 34½%. Services not metered, 65½%.

Average persons per family, 5½.

Average consumption each family per day (all purposes), 202 gallons.

Average consumption each family per day (family use only), 161 gallons.

Average daily consumption by actual users, per head (all purposes), 37 7-10 gallons.

Average daily consumption by actual users, per head, in families supplied by faucet, 38 3-10 gallons.

Average daily consumption per individual in families supplied through meters, 17 3-10 gallons.

Average daily consumption, per head, all inhabitants, all purposes, 30 7-10 gallons.

Amount received per 1,000 gallons, 23 cents.

Average yearly revenue per supply pipe, \$13.05.

DAILY AVERAGE CONSUMPTION FROM 1878 TO 1885.

MONTH.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
January	286,234	309,645	386,524	406,212	445,257	526,943	449,079	532,659
February	274,792	300,275	341,020	397,346	470,841	481,437	444,011	563,741
March	227,484	300,048	325,996	354,168	541,149	503,804	473,190	466,218
April	221,508	297,850	381,002	392,617	477,540	494,281	451,722	543,734
May	294,278	388,671	514,382	466,234	510,951	568,500	502,412	566,650
June	369,844	455,924	719,348	475,373	646,752	719,838	679,588	835,919
July	557,446	488,733	515,623	520,529	764,985	818,209	626,404	870,227
August	386,916	502,418	540,408	510,214	944,486	1,042,608	560,032	660,262
September	374,517	387,366	530,826	550,974	712,994	882,348	663,817	673,137
October	343,431	370,238	419,474	467,153	601,593	511,039	552,219	580,189
November	304,208	361,446	387,683	440,689	520,945	482,570	476,116	529,666
December	297,890	336,777	364,196	426,752	501,669	460,994	497,075	532,023
Daily average	328,212	374,049	452,032	450,705	594,930	624,381	532,804	614,968

Receipts for the Year 1885.

Received on account of water rates	\$36,685 56
Received on account of meter rates	17,161 10
Received on account of service and meter account	5,471 52
Received on account of construction account	2,504 32
<hr/>	
Total receipts for year	\$61,822 50

Expenditures for the Year 1885.

MAINTENANCE.

Amount of appropriation	\$13,000 00	
Expense of Registrar's office, including salary of Registrar, Inspector, traveling and miscellaneous expenses	\$2,881 35	
Expense of Superintendent's office, including salary of Superintendent, traveling, miscellaneous and pipe-laid expenses	1,949 86	
Expense at pumping station, including salaries of engineer and fireman, fuel, repairs, etc.	4,618 94	
Maintaining reservoir	540 20	
Maintaining mains	628 23	
Maintaining hydrants	386 52	
Maintaining services	201 09	
Maintaining filter basin	835 47	
<hr/>		
<i>Amounts carried forward</i>	\$12,041 66	\$13,000 00

<i>Amount brought forward</i>	\$12,041 66	\$13,000 00
Maintaining stand pipes . .	87 47	
Maintaining city teams . .	349 25	
Maintaining drinking posts . .	51 55	
Maintaining watering troughs . .	55 27	
Maintaining dwelling at station . .	21 94	
Tools	266 35	
	<hr/>	<hr/>
Total		\$12,873 49
		<hr/>
Balance, unexpended, . .		126 51

SERVICE AND METER ACCOUNT.

Amount of appropriation . .		\$6,700 00
Expended for new meters . .	\$2,258 56	
Expended for new services . .	2,945 53	
Expended for maintenance services	250 50	
Expended for maintenance of meters	435 62	
Expended for inspection . .	393 68	
Expended for city teams . .	176 33	
Expended for flooding fields . .	11 03	
	<hr/>	<hr/>
Total		\$6,471 25
Balance, unexpended, . .		\$228 75

REBATE ACCOUNT.

Amount of appropriation	\$500 00
Amount expended	196 43
	<hr/>
Balance, unexpended	\$303 57

CONSTRUCTION ACCOUNT.

Expended for new mains	25,433 45
Expended for new hydrants	788 12
Expended for new services	4,496 96
Expended for new gates	344 07
Expended for tools and repairs	590 10
Expended for engine fittings	7 84
Expended for blow-offs	40 00
Expended for gate boxes	785 04
Expended for city teams	257 69
Expended for drinking posts	14 10
Expended for meter room	288 06
Expended for B. & A. R. R.	1,325 62
Expended for additional supply	864 26
<hr/>	
Total	\$35,235 31
Cr. By receipts during year	2,504 32
<hr/>	
Net expenditure during '85	32,730 99
Net expenditure to Dec. 31, '84	966,584 73
<hr/>	
Net expenditure to Dec. 31, '85	\$999,315 72

ORDINANCE OF THE WATER DEPARTMENT.

SECTION 1. A Water Board is hereby established, consisting of five persons, of whom one shall be a member of the Board of Aldermen, one a member of the Common Council and three at large.

SEC. 2. The Water Board shall have the general supervision and management of the water works. They shall hire an engineer and a fireman for the pumping station.

SEC. 3. They shall annually, in the month of January, present to the City Council a report to and including the thirty-first day of December of the preceding year, containing a full statement of the doings of the department, of the condition of the water works, of the number of the water takers, the number of cases where water has been cut off, the number and amounts of abatements and such other matters as they may deem proper.

SEC. 4. The Superintendent shall have general superintendence of the out-of-door work. He shall, as soon as may be after any service-pipe is laid, report to the Registrar the measurements of the same, with the details of work done and materials furnished thereon, specifying what proportion is chargeable to the applicant. He shall also furnish the

Registrar with a detailed report of all main pipe laid, and with such other information and accounts as may be necessary.

SEC. 5. The pay-roll of the Water Department shall be made up by or under the direction of the Superintendent and given to the Registrar, who shall examine it and present it to the said Board for their action.

SEC. 6. The Registrar shall annually, on or before the fifteenth day of September, lay before said Board an estimate in detail of the appropriations required by the department and of its income for the next financial year.

SEC. 7. The Registrar shall assess the water rates according to the tariff established by the City Council. He shall once in each year visit, or cause to be visited, the premises of each person who takes water, make out and distribute bills and exercise a constant supervision over the use of water, and attend to the enforcement of all regulations relating thereto.

SEC. 8. He shall direct the kind of water-meters which shall be used, and shall inspect all meters, and may refuse to furnish water through any meter, which, upon inspection, he may deem out of order or inaccurate.

Meters will be furnished and maintained by the city at cost to all takers who desire to use them; and the city reserves the right to put in a meter, in any case, at its own cost, and charge for water by measure instead of by schedule rates.

Payment for meters must be made before they are set.

Any meter defective in construction, and removed by the Registrar for that reason, shall be replaced at the cost of the city, except when the meter shall have been rendered unfit for use by the owner or occupant of the premises.

SEC. 9. The Registrar shall record the name of every water taker, the kind of building, the name of the street, the nature of the use, the number of fixtures and the amount charged in each case. His books shall be always open to the inspection of any committee of the City Council designated to examine them.

SECTION 10. All bills for water, including the minimum charge for water furnished by meter, shall be payable to the Treasurer, in advance, on the first day of March annually. Bills for specific supplies, or for part of a year, and fines and penalties, shall be paid before the water is let on. Where water is supplied by meter, the excess over minimum rates shall be payable semi-annually, on the first day of March and of September, for the six months next preceding.

SECTION 11. In every case of non-payment of the water rent for thirty days after the same is due, the Registrar shall cause a written demand to be left at the premises where the water is taken; and unless the rent is paid within three days thereafter, together with twenty cents for the demand, the Registrar shall cut off the supply. The water shall not be let on until the amount due, together with said fee and two dollars for the shutting off and letting on, is paid whether other persons taking water through the same service pipe are delinquent or not. In every case of non-payment of water rent the owner of the premises, whether he is the occupant or not, shall be required to pay the same and all charges connected therewith, provided he has been duly notified of the use of water and has made no objection.

SECTION 12. The water shall not be sold or delivered out of the limits of the city, unless by special vote of the City Council.

SECTION 13. Applications for the extension of the main

water pipes shall be presented to and acted upon by the City Council; but no such extension shall be made until the City Engineer has established the line and grade to which the pipes should be laid, and certified to the same in writing to the Registrar.

No extension shall be made upon an unaccepted street unless the City Engineer finds that it is graded to a proper level, and those of the abutters whose consent is necessary give it in due form.

SECTION 14. Applications for service-pipe shall be made to the Registrar. When the cost, estimated by him, of the applicant's part has been deposited, the pipe shall be laid. From the main pipe to the street line opposite the point of connection, it shall be laid at the expense of the city, and the remainder at the cost of the applicant. The account shall be adjusted, and any balance paid before the water is let on.

The location of service-pipe shall be fixed by the City Engineer.

SECTION 15. The annual price or rent to be paid for the use of water shall be in accordance with the following schedule. In any case not therein provided for, the Registrar shall fix the price or rent.

The Registrar may make all proper abatements.

No change from annual to meter rates will be allowed except between March 1 and April 1.

SCHEDULE OF WATER RATES.

DWELLING HOUSES.

If occupied by one family, for one faucet	\$6 00
Each additional faucet	2 00
If occupied by two or more families, for one faucet, each family	4 00
(When two faucets are used, one for hot and one for cold water, both discharging into one basin, the two will be reckoned as one.)	
Bath-tub	5 00
Each additional bath-tub	3 00
Pan water-closet, or self-closing urinal	5 00
Each additional closet or urinal	3 00
Set wash-tubs, not more than three in each set, each set	1 00
Private families, numbering not more than twelve persons, may commute the above for	25 00
Private families, numbering more than twelve per- sons, for each person in excess of twelve	2 00

BOARDING HOUSES.

Same rate as private families.

HOTELS.

Each bed for boarders or lodgers	3 00
Bath-tubs, water-closets, urinals, and wash-tubs, double the rates for private families.	

STORES, OFFICES, AND WAREHOUSES.

One tenant, for one faucet	6 00
Each additional faucet	2 00
Two or more tenants, using one faucet, each tenant	4 00
Pan water-closet, or self-closing urinal, each tenant using	5 00
Each additional closet or urinal	3 00

STABLES.

Private stables, one horse, \$5; each additional	3 00
Livery, club, or boarding stables, each horse	3 00
Truck, cart, or omnibus stables, each horse	2 00

(The above includes water for washing carriages without hose.)

Neat cattle, each head	1 50
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(No stable to be charged less than \$5.)

HAND HOSE.

(No hose over three-eighths inch orifice allowed.)

Hand hose for washing carriages, when no other service is had	11 00
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Fifty cents additional for each horse.

Hand hose for washing carriages, when used in connection with stable, or other use	3 00
--	------

Fifty cents additional for each horse.

Hand hose for watering streets and gardens, not exceeding one hour per day, when no other service is had, for a year or any portion thereof	11 00
---	-------

Hand hose for watering streets and gardens, not exceeding one hour per day, when used in connection with dwelling-house or other rated use, for a year or any portion thereof	5 00
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Three dollars is added for each additional attachment with hose to fixtures in or upon the premises.

STEAM BOILERS.

In use not over twelve hours per day, for each horse power	6 90
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BUILDING PURPOSES.

For each cask of lime or cement used	6 00
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DRINKING FOUNTAINS AND HYDRANTS.

Each public drinking fountain, or watering trough . . . 6 00
 (Private fire-hydrants, to be used only in case of fire,
 no charge.)

RATE BY METER.

For each hundred gallons 3 1-2 cents.
 (Every meter will be subject to a minimum charge of \$10.)

SPECIAL RATES.

Special rates will be made, or meter rates charged, for markets, saloons, restaurants, bakeries, manufactories, workshops, public baths, halls, churches and railroads, and for purposes not included in any classification.

When application is made for shutting off and letting on the water, in case of repairs, or of protection from frost, a charge will be made of one dollar.

SECTION 16. The following regulations shall be considered a part of the contract with every person who takes water; and every such person, by taking water, shall be considered to express his consent to be bound thereby. They shall be printed upon every bill for water rent; and, whenever any one of them is violated, the water shall be cut off from the building or place where the violation occurs (although two or more parties may receive water through the same service pipe), and shall not be let on again except by order of the Registrar, and on the payment of two dollars. In case of any violation, the Registrar may declare any payment made for water, by the offender, to be forfeited, and it shall be forfeited.

1. Persons taking water shall keep the service-pipe within their premises in good repair, and protected from frost at their own expense, and will be held liable for all

damage which may result from their neglect. Bills for repairs of meters or service-pipe shall be paid within ten days after demand.

2. They shall prevent all waste of water, and shall not conceal the purposes for which it is used.

3. No alteration shall be made in any pipe or fixture inserted by the city, except by persons authorized by the Registrar, who may enter the premises to examine the apparatus, the quantity of water used and the manner of its use, and to ascertain whether there is waste.

4. No water shall be supplied to persons not entitled to the use of it, unless by special permission of the Registrar.

5. The use of hand-hose is restricted to one hour in each day, between 6 and 9 o'clock A. M., or 5 and 8 o'clock P. M., except where the water is drawn through a meter.

6. Distributing-pipes and water fixtures introduced into the premises of any water-taker shall be subject to the approval of the Registrar. No change affecting the flow of the water shall be made, nor additional fixtures put in, without his written approval.

The City Council may alter the foregoing regulations at any time.

SECTION 17. The owner and the occupant of premises in which water furnished by the city is used, who fails to keep the service-pipe and fixtures in good order, and neglects to repair them within three days after they have become defective, or neglects to shut off the water, so that it runs to waste, shall be liable to a fine of two dollars; and if the fine is not paid within two days after notice, the water shall be cut off and shall not be let on until the waste is stopped and the fine is paid, together with two dollars for cutting off and letting on the water. In case of a second offence within one year, the water shall be cut off, and shall not be let on except by a

vote of the said Board, and the payment of such forfeit, not exceeding \$10, as the Board may impose.

SECTION 18. Any plumber, or other person, who shall make any alterations in, or additions to, any water-pipe or fixture, except so far as a written permit therefor has been given by the Registrar, shall be liable to a fine not exceeding \$20.

SECTION 19. Whoever opens any hydrant, or removes the caps thereof, or opens or makes any connection with a pipe or reservoir, or turns off or on the water in a pipe or reservoir, without the permission of the Water Registrar, the Superintendent of Water Works, or the Chief of the Fire Department, except in case of fire, shall be liable to a penalty of not less than \$3 nor more than \$20; provided, however, that in case of emergency the water may be turned off by any employee of the city, who shall, in such case, immediately notify the Registrar.

SECTION 20. Whoever fishes in the reservoir or filter-basin, or discharges any gun or fire-arm on the same or on the grounds connected therewith, or bathes therein, or places or uses any boat therein, or posts any bill, placard or advertisement within said grounds, shall be liable to a fine of not less than \$5 nor more than \$50 for each offence.

RULES AND REGULATIONS OF THE WATER DEPARTMENT.

Adopted by the Water Board, April 6, 1883.

The office of the Water Board is established at the room in the City Hall, West Newton, now occupied by the Water Registrar.

Reports will be made to this office daily, as follows:—

From the reservoir :

Of the stage of water there at 7 A. M.

From the Engineer at the Pumping Station :

Of the stage of water in the well at 7 A. M.

Of the stage of water in the river at 7 A. M.

Of gallons of water pumped in the twenty-four hours ending at 7 A. M.

Of pounds of coal delivered to the boilers in the twenty-four hours ending at 7 A. M.

From the Superintendent :

Of the details and expense of any construction jobs completed in the previous day.

The Registrar

Is the Clerk and Executive Officer of the Water Board.

All orders of the Board to persons employed in the department will be signed by, or given through, him and will be respected and obeyed accordingly.

He will keep copies or memoranda of all orders from the office and the reports of other officers closely posted up.

No order for the extension of mains or laying of services will be issued by him until he has received the certificates of the City Engineer concerning lines and grades, as required by the Ordinance, nor without the special order of the Board, until a guarantee of five per cent. annual income for five years upon the estimated cost of any extension of mains has been executed and filed with him, nor in the case of unaccepted streets or lands until the license of the abutters has been received by him.

The Registrar will be held responsible for the proper condition of the books, papers and work of the office, as also for the due performance of the duties imposed upon him by the ordinances.

The Superintendent

May employ and discharge day laborers, as the work of the department may require.

He will also leave word with the person in charge of his station at Newtonville as to where he may be found: or, when no person is left in charge there, he will, before leaving, report to the water office, by telephone, where he may be found while absent, and the time of his expected return.

In addition to current reports of work done under his direction, he will, on the first of December in each year, take an account of all property in his custody, and report the same, showing:—

1. The number or quantity of each article on hand at the beginning of the year.
2. The number or quantity of each article received by him in the year.

3. The number or quantity of each article used in the year.

4. The number or quantity of each article remaining on hand December 1.

The Superintendent will be held responsible for the good conduct of the men under his direction, the condition of the water, the reservoir and its grounds, the basin and grounds in Needham, the piping and gates, the hydrants and the tools and other property of this department. He will also be watchful to prevent or remedy any projection of the service boxes above the surface of the ground.

He will seasonably report to the water office when there is occasion for the purchase of any property.

The Engineer at the Pumping Station

Will be held responsible for the good condition of the buildings, machinery, fixtures, furniture and tools there and of the grounds immediately about the station. For these purposes he may at all times command the assistance of the fireman. If there is any occasion for material or labor other than that of himself and the fireman, he will seasonably give notice to the water office, in order that the Board may make proper provision therefor.

The engineer will not absent himself from the station nor permit the absence of the fireman except upon leave asked and obtained from the water office. The engineer and fireman are never to be absent at the same time.

Special reports by telephone will be made of any unusual occurrence within the observation of the engineer.

He will keep, closely posted up, the book of record of the pumping engine, which will be furnished him.

Either engineer or fireman to be on the spot at all times, day or night, week-days, Sundays or holidays.

The Water Board desires that it shall be distinctly understood by all persons employed in the department that the city expects, in return for the pay attached to their several positions, the whole of their time and the best of their capacity.

No extra pay for work directly connected with their duties will be allowed to persons whose pay is fixed by the month or year, and no absence from duty without leave will be permitted.

In the performance of their duties propriety and courtesy, in language and manner, will be expected of officers and men.

By order of the Water Board.

EDWARD W. CATE, *President*.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF NEWTON,

1885.

VOL. XLVI.



NEWTON:
PRESS OF THE NEWTON JOURNAL.
1886.

ORGANIZATION OF THE SCHOOL COMMITTEE.

JANUARY, 1885.

HON. J. WESLEY KIMBALL, MAYOR, CHAIRMAN, *ex officio*.
 SAMUEL L. POWERS, PRESIDENT COMMON COUNCIL, *ex officio*.
 FISHER AMES, CHAIRMAN.
 ISAAC HAGAR, SECRETARY.
 THOMAS EMERSON, SUPERINTENDENT.

<i>Elective Members.</i>	<i>Wards.</i>	<i>Term of office expires.</i>
EDMUND W. CONVERSE,	I.	January, 1886.
CHARLES H. STONE,	I.	" 1886.
JOHN W. DICKINSON,	II.	" 1886.
A. AMELIA SMEAD,	II.	" 1886.
FISHER AMES,	III.	" 1888.
WILLIAM S. SMITH,	IV.	" 1886.
GEORGE A. WALTON,	III.	" 1888.
ISAAC HAGAR,	IV.	" 1888.
JOHN A. GOULD,	V.	" 1887.
ALBERT B. PUTNEY,	V.	" 1887.
CHARLES C. BARTON,	VI.	" 1887.
WILLIAM D. PHILBRICK,	VI.	" 1887.
GEORGE W. SHINN,	VII.	" 1887.
ALONZO S. WEED,	VII.	" 1888.

STANDING COMMITTEES.

High School.—Fisher Ames, John W. Dickinson, William S. Smith, George W. Shinn, Edmund W. Converse, Charles C. Barton, William D. Philbrick, and the Mayor, *ex officio*.

Evening Schools.—George W. Shinn, Alonzo S. Weed, George A. Walton.

Music.—George W. Shinn, A. Amelia Smead, Albert B. Putney.

Drawing and Writing.—A. Amelia Smead, Charles H. Stone, Albert B. Putney.

Industrial Drawing.—John A. Gould, Charles H. Stone, Samuel L. Powers.

Sewing.—A. Amelia Smead, George W. Shinn, William D. Philbrick.

Text-Books.—Charles C. Barton, William S. Smith, Alonzo S. Weed.

Rules and Regulations.—William S. Smith, Alonzo S. Weed, George A. Walton.

Salaries.—Edmund W. Converse, Samuel L. Powers, John W. Dickinson.

Schoolhouses.—Isaac Hagar, Charles H. Stone, John W. Dickinson.

Accounts and Printing.—Isaac Hagar, Fisher Ames, George A. Walton.

DISTRICTS.

NEWTON CENTRE.

CHARLES C. BARTON, Newton Centre.

WILLIAM D. PHILBRICK, Newton Centre.

JOHN A. GOULD, Newton Upper Falls.

ALBERT B. PUTNEY, Newton Highlands.

SAMUEL L. POWERS, Newton.

UPPER FALLS.

JOHN A. GOULD, Newton Upper Falls.

ALBERT B. PUTNEY, Newton Highlands.

ISAAC HAGAR, Newton Lower Falls.

WILLIAM D. PHILBRICK, Newton Centre.

CHARLES C. BARTON, Newton Centre.

AUBURNDALE AND LOWER FALLS.

WILLIAM S. SMITH, Auburndale.

FISHER AMES, West Newton.

ISAAC HAGAR, Newton Lower Falls.

WEST NEWTON.

FISHER AMES, West Newton.

GEORGE A. WALTON, West Newton.

JOHN W. DICKINSON, Newtonville.

WILLIAM S. SMITH, Auburndale.

A. AMELIA SMEAD, Newtonville.

NEWTONVILLE.

JOHN W. DICKINSON, Newtonville.

A. AMELIA SMEAD, Newtonville.

ALONZO S. WEED, Newton.

CHARLES H. STONE, Newton.

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ALONZO S. WEED, Newton.

SAMUEL L. POWERS, Newton.

ORGANIZATION OF THE SCHOOL COMMITTEE.

JANUARY 1886.

HON. J. WESLEY KIMBALL, MAYOR, CHAIRMAN, *ex officio*.

JAMES W. FRENCH, PRESIDENT COMMON COUNCIL, *ex officio*.

FISHER AMES, CHAIRMAN.

THOMAS EMERSON, SECRETARY AND SUPERINTENDENT.

<i>Elective Members.</i>	<i>Wards.</i>	<i>Term of office expires.</i>
EDMUND W. CONVERSE	I.	January, 1889.
CHARLES H. STONE	I.	" 1889.
JOHN W. DICKINSON	II.	" 1889.
A. AMELIA SMEAD	II.	" 1889.
FISHER AMES	III.	" 1888.
WILLIAM S. SMITH	IV.	" 1888.
GEORGE A. WALTON	III.	" 1888.
ISAAC HAGAR	IV.	" 1887.
JOHN A. GOULD	V.	" 1887.
ALBERT B. PUTNEY	V.	" 1887.
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GEORGE A. WALTON, West Newton.

WEST NEWTON.

FISHER AMES, West Newton.

GEORGE A. WALTON, West Newton.

JOHN W. DICKINSON, Newtonville.

WILLIAM S. SMITH, Auburndale.

A. AMELIA SMEAD, Newtonville.

NEWTONVILLE.

JOHN W. DICKINSON, Newtonville.

A. AMELIA SMEAD, Newtonville.

ALONZO S. WEED, Newton.

CHARLES H. STONE, Newton.

EDMUND W. CONVERSE, Newton.

NEWTON.

GEORGE W. SHINN, Newton.

CHARLES H. STONE, Newton.

EDMUND W. CONVERSE, Newton.

ALONZO S. WEED, Newton.

JAMES W. FRENCH, Newton.

CITY OF NEWTON.

IN BOARD OF SCHOOL COMMITTEE, Oct. 28, 1885.

The Chair appointed the following-named members as the committee to prepare the Annual Report, viz.: Fisher Ames, E. W. Converse, J. W. Dickinson, William D. Philbrick and W. S. Smith.

Dec. 23, 1885.

The Annual Report was presented by Mr. Ames, and accepted.

ISAAC HAGAR,
Secretary.

IN BOARD OF SCHOOL COMMITTEE, Jan. 6, 1886.

Ordered, That twenty-five hundred copies of the Annual Report be printed.

THOMAS EMERSON,
Secretary.

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REPORT OF THE SCHOOL COMMITTEE.

To the Citizens of Newton :

The School Committee herewith submit their report of the condition of the schools of Newton for the year 1885, being the forty-sixth in the annual series. It is brought down to the end of the calendar year, which corresponds with the financial year of the schools.

In accordance with the method adopted last year the reports from the several districts are not separately given, as was formerly the practice, the material portions of them being incorporated in the general report.

The customary generous and hearty support of the public schools has been continued. In return for the liberal appropriations made, the citizens are entitled to ask and expect that the money shall be expended so as to produce the best results. With children very much above the average in good conduct and intelligence, a corps of teachers of ability, fidelity and zeal, and the cordial support of parents and citizens generally, our schools should be, and we believe we can safely assert that they are, as good as any in the land. At the same time we do not claim that they are perfect, or that they cannot be improved. There are, of necessity, difficulties inherent in the public school system, and inseparable from the instruction together in one class of a large number of children of different dispositions, characters and mental abilities. The methods of instruction and the amount of time found proper and suitable for the needs of a large class

will not always answer for each individual case. The very bright scholars have to be retarded somewhat to allow the generality of the class to accomplish the required amount of work, while the very dull ones, in order to keep anywhere near the standard, need more of the exclusive time and attention of the teacher than can be given to them in justice to the others. To overcome this difficulty as far as possible is the desire of this Board. An attempt to remedy it in part has been made by a revision of the course of study for preparation for the High school, simplifying and shortening it so as to render it possible for a good scholar to accomplish the whole preparatory work in eight years instead of nine, as formerly required. The average age of High school pupils has been and still is somewhat higher than is necessary or desirable. The change is intended and expected to furnish an incentive to study, and an opportunity to earn promotion without the necessity of awaiting the slower movements of the whole class; while, for those who do not intend to enter the High school, a broader and fuller grammar school course is provided. The experiment has been tried for a short time only, but it promises to be of value.

That other difficulties than that above mentioned exist, and that the methods of teaching can and should be improved, we also admit; but special efforts are being made in these directions. Very great care is exercised in the selection of teachers. A new and thorough revision of the courses of study in the primary and grammar grades has been made and published, by which the amount of time devoted to cultivating the faculties of observation, thought and expression is increased, and the amount of mere memorizing work diminished. Improvements have been made in these and other ways, the good effects of which will be better seen as time goes on. In all this work we have received

the most valuable aid and co-operation from the Superintendent, and many of the measures adopted were suggested by him.

The frequent necessity of employing substitutes in cases of sickness and unavoidable absence of teachers has induced the Board to make arrangements for the regular employment of two permanent substitutes, or unassigned teachers, qualified to teach in the upper and lower grades respectively. The slight extra expense involved (substitutes being paid out of the salary of those whose places they take) will be more than offset by the advantage of always having within call an experienced teacher, familiar with the progress and methods of work in our schools, ready to take the place of an absent teacher and carry on her class without the confusion and interruption heretofore arising in such cases, besides saving valuable time of the Superintendent in finding substitutes, and greatly improving the steadiness and quality of the teaching. It is not unreasonable to expect to find pretty regular and steady work for two substitutes among the many teachers now employed. In this connection it gives us pleasure to acknowledge the very efficient and valuable aid and advice rendered by the Superintendent in the selection of teachers for new appointments.

Early in the year the Board appointed a special committee to investigate the system of dealing with truancy and absenteeism, and, upon their report, provision has been made for the employment of a principal truant officer, with a salary of \$300., with one or more assistants at a nominal salary, to give the matter more particular and careful attention than heretofore. Mr. Martin C Laffie was appointed principal officer, and has performed the somewhat delicate duties of his office with fidelity, and with some improvement in the school attendance. There has heretofore been a practical difficulty

in that the Almshouse, the place assigned by the city ordinances for the detention of truants, is entirely unsuitable, and indeed has never been put into such a state or condition that it could be used at all for the purpose, and the reform schools generally are not desirable places to which to send merely idle and careless truants. The Committee has now made arrangements with the Lawrence Industrial School at Lawrence for the reception of such boys as cannot be managed by milder methods, where they will be subjected to good influences, and well trained and educated. This arrangement requiring the co-operation of the City Council, their attention was called to the matter, and an ordinance has since been adopted to carry it into effect.

During the year two new school-houses, the Rice school in Ward 6, and the one in Shaw street in Ward 3, have been completed and opened. Three rooms in each were at first occupied, but it has been found necessary to open the fourth room in the Rice school. An excellent portrait of the late Marshall S. Rice, for whom the school was named, the gift of his son Marshall O. Rice, has been placed in the new school-house, where it adds to the attractiveness of the very pleasant rooms.

Quite a number of our school-houses are in great need of repairs. The present method of making these repairs is somewhat unsatisfactory. The responsibility is so subdivided that it is almost annulled. It is desirable that the City Council should make some more efficient provision for the purpose in all the more expensive and important matters, such as re-shingling, re-slating, external painting, substantial alterations or additions, and outside repairs generally. The smaller matters, incident to the daily wear and tear, such as glazing, cleaning and tinting walls or ceilings, mending locks, shades, hinges, and the many little inside repairs, the

need of which comes first to the attention of the local committee, and, in the interests of comfort and economy, should be promptly attended to, we believe might well be left to the care and management of this Board. With this view the Board, in the estimate of the cost of the schools for the next year, included a request for \$3000 for this purpose, but the City Council has not seen fit to make the appropriation.

Certain alterations in the outbuildings at the Franklin and Underwood schools, rendered necessary to preserve the health of the children and teachers, were made at a slight expense, under the direction of this Board, as the Public Property Committee of the City Council were unable to undertake the work from a lack of funds.

The statutes of the Commonwealth require the School Committee "to have charge of the school buildings, so far as relates to the uses to which the same may be appropriated." As there has been some apparent confusion or misunderstanding in regard to this subject under the City ordinance which gives to the Public Property Committee the care and management of the public buildings, the attention of the City Council has been directed to it. It is of course presumed that the ordinance is not intended to conflict with the statute.

During the year some changes in the rules and regulations of the Board have been found necessary or desirable. The law requiring all text-books to be furnished free to all pupils necessitated a change in the methods of issuing them and regulating their use. Under the change in the City charter the estimates and appropriations for the maintenance of the schools are now made in the latter part of the year for the ensuing year. The time for beginning school in the fall has been changed from the first to the second Monday of September, as the first week of September is frequently un-

comfortably warm, and the change is desirable for other reasons also. As an offset to this the vacation during Thanksgiving week has been shortened to Thanksgiving day and the day following. The Board has continued the plan of shortening the morning session half an hour, and doing away with the long recess in the grammar grades. This plan was tried experimentally for over a year, and the opinions of many well-known and respected physicians in the City taken, with the almost unanimous testimony that no injury had resulted or was likely to result. With the provision now in force requiring a recess of a few minutes in the middle of the session, and a thorough renovation of the air, and perfect freedom to pupils to leave the room whenever necessary, it does not seem possible that any harm can result, while the advantages of the present system are decided. All the teachers are quite strongly in favor of the present plan.

The legislature last winter passed an Act requiring instruction to be given to all pupils in the public schools as to the effects upon the human system of alcoholic drinks, stimulants and narcotics. The Board has under consideration the proper methods and text-books, if any, to be used for this purpose. As a preliminary measure the Board accepted the invitation of the Ladies' Educational Society of West Newton, to attend the lecture of Mr. Arthur C. Boyden upon the topic and the proper methods of teaching it, and requested all the teachers in our schools to attend. The lecture was interesting and instructive. The Legislature also provided that instruction might be given in the use of hand tools, if deemed expedient by the School Committee. This subject will receive due consideration. At present no proper means are at hand nor place available for the purpose, and cannot be provided without considerable expense. The

question of the propriety and advantage of industrial training cannot be said as yet to be definitely settled, and, as the matter is being carefully tested in one or more cities, it would seem to be the most prudent course to await the result of these experiments before deciding in favor of it. It can be said however, that the instruction in sewing, which has been for some time given in our schools, is found to be of value. In case a drill shed is placed upon the High school lot, it is possible that such a building might be utilized for the purpose of industrial training, if it is decided to adopt the plan of giving such instruction.

The Board have recently secured the services of Mr. Horace M. Walton as music teacher. The schools have been without a special music teacher for over a year, owing to the difficulty of securing one in all respects satisfactory. There is every reason to believe that the appointment is a good one.

The Evening school was in operation for fourteen weeks last winter, with a force of nine teachers. The attendance averaged 62; the enrollment was 110; 60 males and 50 females. The school is now open for the present winter with an enrollment of about 100, and the number is expected to increase as the school continues. The work done by this school is of great value, and it furnishes an opportunity for giving the instruction in industrial drawing required by law.

The special instruction in sewing is productive of benefit to the girls. The work of the year has been satisfactory. As the instruction is continued through four years it is found that one hour per week is sufficient for it, and during that time a very fair knowledge of the art can be obtained.

In drawing fair progress has been made. A new set of models being greatly needed, an order has been passed providing for the purchase of a set.

The past year has not been remarkable for any unusual events. The work has gone on in the customary way, though, as we believe, with an improved tone and renewed zeal. The year has been tolerably free from serious or dangerous epidemics, although, at times, there was more or less of contagious disease prevalent, in some cases interfering somewhat with the regular work.

The total enrollment for the last school year was 4027; average attendance 3047.2. Fuller statistics will be found in the reports of the Superintendent and Secretary.

The appropriation for the maintenance of schools for the year 1885 was \$106,350. The increase of expense for the year by reason of furnishing all text-books free was about \$5000. It is expected that it will be necessary to renew the books every three or four years, but the average annual outlay for books under the new system will probably be less than heretofore, the burden of the expense being differently distributed. The indications are that the law will prove beneficial and advantageous. It undoubtedly tends to increase the average attendance.

The appropriation made by the City Council for the support of schools for the year 1886 is \$111,800, being somewhat less than the estimate of the Board.

In the High school the increase in numbers necessitated an increase in the number of teachers, and early in the last school year Miss S. Alice Ranlett and Mrs. L. P. Underhill were appointed. Both appointments have proved excellent ones, adding much to the efficiency and value of the school.

The work of the past year has been about the same as in preceding years. The crowded condition of the school has produced some discomfort and interfered somewhat with

satisfactory work. It is especially felt in the military drill, the numbers present rendering it practically impossible to carry it on in the school building. The City Council allowed the battalion to drill in the City Hall last winter, but the hall is somewhat small for the purpose, and the inconvenience and expense attending its use were very considerable. For the present winter Armory Hall has been kindly put at our disposal. The increased and increasing size of the battalion absolutely requires some proper and adequate provision for the drill, if it is to be retained as a part of the course of instruction, and this Board is convinced of its value and importance. The Board has several times asked that a drill shed might be erected. The expense of such a building need not be very great, and it could probably be used for other purposes also.

It has been found necessary to put two classes, the first and second, into the room formerly used by the first class only, and the number in the room, over one hundred and fifty, is too great for comfort and convenience, and seriously interferes with the variety and efficiency of the girls' calisthenic exercises, which are now limited to the narrow spaces between the desks. The value of these exercises for imparting strength and grace was well demonstrated by the public exhibition given by the girls of the school at Eliot Hall, December 19th, which reflected great credit upon the girls and their teacher, Miss Ireson, and afforded much pleasure to the many spectators. These exercises require and should have a large open floor space, with good ventilation. There being no such space in the school building, the drills preparatory to the exhibition were held in some of the public halls, the City and other owners kindly allowing their use for the purpose.

There is probably room for a few more seats, but the ventilation and lighting are so defective that the building is now uncomfortably full, with a due regard to its real working capacity. The report of the State Board of Health just issued characterizes the building as badly planned, badly lighted and badly ventilated. The middle room in the second story is long and narrow, lighted from the narrow end, necessarily used as a passageway, and is unfit for a class room. The want of suitable and conveniently located recitation rooms, and of a sufficiency of wardrobe and closet room, and the inadequacy of the means of exit and of passage through or into the building have long been a source of discomfort, if not of actual danger, which must increase as the numbers increase. It is clear that the school is outgrowing the building, and that some provision must soon be made to meet the needs of the future. The attention of the City Council having been called to the matter by a vote of this Board, the subject has received very careful consideration by committees of the City Council and of this board, in frequent conferences, resulting in the preparation of plans contemplating the enlargement of the present High School lot and the erection of an addition constituting a section of a building to be completed at some future time, when required. These plans have been transmitted to the City Council, with the recommendation of this Board that they be adopted. It should be stated that a considerable part of the increase in the number of scholars is due to their longer continuance in the school, the graduating classes being larger in proportion to new admissions, than formerly. This indicates an increasing popularity and usefulness of the school.

During the year the Board carefully considered a plan to relieve the pressure on the school by dividing it into two sessions, one-half of the scholars to attend in the forenoon

and the other half in the afternoon. Although the plan possessed some advantages, the Board came to the conclusion that the disadvantages were too many and serious, and it was not adopted.

The class which graduated this year numbered sixty, of whom thirty-six were girls and twenty-four boys. Of these, five went to Harvard, six to the Institute of Technology, five to the Boston University, and others in small numbers to a number of other colleges and schools. The exercises of graduation day (which, by the custom of the school are, to a great extent, determined by the class), were quite creditable, and were attended by a large number of interested spectators. The military exhibition and competitive drill showed a great degree of proficiency and skill, considering the difficulties under which the drill labored throughout the year for want of proper accommodations. Mr. J. P. B. Fiske, the Major, acted as military instructor, gratuitously, with marked success, and the Board has since elected him as the regular instructor.

During the year the course of study has received some attention, and some modifications have been adopted. Algebra has been made optional in the English or general course, the amount of history increased, and other efforts made to broaden the course. In the classical course no changes have been made, except some slight re-arrangement of the order of studies.

The teachers in the High school are as follows: Edward H. Cutler, head master; Ezra W. Sampson, master; S. Warren Davis, assistant master; Caroline Spear, S. Alice Worcester, M. Abby Smith, Maybell P. Davis, Evelyn Rich, S. Alice Ranlett, Lida P. Underhill, assistants. Special teachers: J. P. B. Fiske, military instructor; Jennie E. Ireson, instructor in Elocution and Calisthenics.

In accordance with the usual custom, a list of the names of the last graduated class is appended.

GRADUATES OF THE HIGH SCHOOL, 1885.

FOUR YEARS' COURSE.

CLASSICAL.

WILLIAM R. BIGELOW	MAY L. DAVIS
HARRY F. BROWN	MABEL I. DYER
ALLSTON BURR	WALTER W. GODDARD
CHARLES W. BURR	EMILY HAZEN
MARY E. CHESTER	MARY W. KINGSBURY
ALPHEUS S. CODY	JOHN S. LESTER
LILLIE A. COLLINS	BERNARD J. PETERS
THOMAS J. DALY	JAMES S. STONE
IDA S. DAVIS	GEORGE E. WARREN

GENERAL.

LILLIE V. BOOTHBY	MARY L. LOVETT
JAMES CONVERSE	FANNY I. LUTHER
ELLEN L. DOHERTY	EDMUND P. MARSH
HELEN L. ELLIS	BESSIE D. MOODY
J. P. B. FISKE	EDITH G. PAGE
CLARA L. FLINT	FRANCIS C. PARTRIDGE
HARRIET FORBES	MARY L. PATRICK
CAROLINE S. FULLER	FLORENCE B. PETTEE
FRANC L. GARDNER	MABEL H. POTTER
ALBERTA GROVER	ALBERT E. PUTNAM
FREDERIC A. HILLS	ISABEL SHINN
ELIZABETH D. HINCKLEY	MARGARETTE L. STRONG
LUCIE M. JOHNSON	LOTTIE A. TOMLINSON
MABEL F. KENRICK	PAUL VAN DUZEE

MARTHA A. LOVELY

THREE YEARS' COURSE.

MARTHA M. DIX	SUSAN C. PECKHAM
WILLIAM M. DUANE	WALDO L. PLIMPTON
GEORGE L. HOLMES	MABEL F. ROBINSON
WALTER S. KRAMER	GERTRUDE F. THOMPSON
LILIAN J. MANSON	MARIA W. TYLER
WILLIAM T. MAY	MARY H. WALLACE

LINDA E. NICKELSON.

The matters to be noted and the changes of teachers in the various districts are as follows:

The Mason school has been relieved by the opening of the Rice school. Resignations: Sarah H. Munger and Dela E. Dodge, first assistants; Annie E. Bancroft and Fannie E. Longfellow, assistants. Mary Tenney, assistant, was granted one year's leave of absence. Present teachers: Albert L. Harwood, master; Ellen L. Baker, first assistant; Abbie D. Esty, Maria F. Wood, Georgia Bucknam, Roberta J. Hardie and Mary E. Mason, assistants.

The Rice school proves to be a very satisfactory building. There are now four grades in the school. The teachers are, Myra A. Wilson, principal; Margaret Martin, Ellen M. Cook and Ida D. Merrill, assistants. The first three were transferred from the Mason school.

Mr. C. Howard Wilson has resigned from the charge of the Oak Hill school, which is now under the care of Miss Louise N. Burbank. The Thompsonville school continues under Miss Helen A. Davis.

In the Hyde school Mabel R. Wetherbee, assistant, resigned. George A. Moore, master; Charlotte E. Cameron, first assistant; Gertrude Blackmar, Blanche Wetherbee, Phebe E. Churchill and N. Grace Gould, assistants.

In the Prospect school Mr. Walter C. Frost, the master, resigned. Present teachers: Charles E. Hussey, master; Martha L. Perkins, first assistant; Ella P. Crooker, Lucy A. Hayward, Lizzie W. Everett and Mary P. Fanning, assistants.

There has been no change at the Hamilton school. The buildings and grounds were recently put in good order and repair. Luther E. Leland, master; Anna G. Swain, first assistant; Ellen M. Leland and Sarah H. Jumper, assistants.

Williams school. Miss Grace G. Billings, resigned. George L. Chandler, master; Elizabeth A. Pinnock, first assistant; Laura Saltonstall, Dora A. Allen, Mattie A. Ingraham and Ann B. Smith, assistants.

There was no change in the Pierce school except the transfer of Miss Helen S. Tolman to the Davis school. Levi F. Warren, master; Sarah A. Warren, first assistant; M. Alice Warren and Eliza E. Simmons, assistants.

Davis school. Calista S. Wood and Susan E. Copeland were transferred to the Shaw street school. Ella G. Bates, principal; Helen S. Tolman, Addie A. Jackson and Sarah E. Foster, assistants. The necessity for the further employment of a temporary assistant was obviated by the opening of the Shaw street school.

Franklin school. Resignations, M. Isabel Jenkins and Emma T. Weeks. Present teachers: Elizabeth F. Paddock, principal; Lulu M. Bagley, Clara H. Thompson and Margaret A. Mague, assistants.

Shaw street school. Calista S. Wood, principal; Susan E. Copeland and Lizzie Jones, assistants. In this district the first five grades are now divided between the Davis and Shaw street schools, and the pressure on the Pierce and the Davis is relieved. The new building is quite satisfactory, except a difficulty of heating in severest weather.

Adams school. William A. Spinney, master; V. E. Hapgood, first assistant; Abbie I. Fiske, Estella M. Haynes, Angelia A. Smith and Clara H. Fox, assistants. The increase in attendance in this school necessitated opening an additional room.

Claflin school. Resignations, Lilla T. Wilder, Mary R. Ware. Mrs. Lizzie Jones was transferred to the Shaw street school. Present teachers: Herbert F. Sylvester, master; Carrie H. Rugg, first assistant; Ellen M. Harrigan, Ellen S. Tewksbury and Lydia A. Brierly, assistants.

Eliot School. George G. Edwards, master; H. Augustus Millard, first assistant; Louise W. Clelland and Gertrude G. Tewksbury, assistants.

Jackson school. Resignations, Abby J. Clark, Gertrude H. Smead. Present teachers: Eliza J. Lovely, principal; Mary A. Wellington, Rose A. Harkins, Jeanette Cobb and Lottie E. Stearns, assistants.

Bigelow school. H. Chapin Sawin, master; Martha M. Bakeman, first assistant; Annie E. George, S. Louise Shelton, Augusta A. Lentell, Emily J. Dyer, Elizabeth Ayles and Mary R. Putney, assistants.

Underwood school. Resignations, Emma M. Cleary, Principal; Lizzie C. Clark and Clara A. Farwell, assistants. Present teachers: Charlotte E. Sewell, principal; Annie L. Wood, Ada L. Donkin and Josephine W. Littlefield, assistants.

Lincoln school. Nellie B. Rand.

Special teachers. Music, Horace M. Walton; Sewing, Miss Julia Grant, Mrs. Ellen L. Bond; Drawing, Miss Adeline V. Pond.

For the Committee,

FISHER AMES,
Chairman.

SUPERINTENDENT'S REPORT.

TO THE SCHOOL COMMITTEE OF NEWTON:—

In compliance with the rules of the Board I respectfully present my annual report for the school year 1884-5. The schools were in session forty weeks, beginning September 8, 1884, and ending June 26, 1885.

A general exhibit of the number of schools and teachers, of the enrolment and attendance of the pupils, and of the school accommodations, is given in the following statistics:

POPULATION.

Population of the city, United States census of	
1880,	17,000
Number of persons in the city between five and	
fifteen years of age, May 1, 1885,	3,611
Number of pupils between five and fifteen years	
of age attending the public schools in May,	
1885,	2,891
Number of pupils between five and fifteen years	
of age in private schools,	199
Number of persons between five and fifteen	
years of age not attending school,	521

SCHOOL BUILDINGS.

Number of schoolhouses,	19
Number of buildings rented for school purposes,	1
Number of occupied rooms, May 1, 1885,	82
Number of unoccupied rooms, May 1, 1885,	11
Total number of rooms, May 1, 1885,	93
Number of halls, May 1, 1885,	6
Total number of sittings, May 1, 1885,	4,304

SCHOOLS.

High School,	1
Grammar Schools,	46
Primary Schools,	31
Mixed School,	1
Total,	79

TEACHERS.

In High School,	10
Special teachers in High School,	3
In Grammar Schools,	46
In Primary Schools,	31
In Mixed School,	1
Special Teachers of Sewing,	2
Total,	93

ENROLMENT, ATTENDANCE, &C.

Whole number of pupils enrolled, 1884-5,	4,027
“ “ “ “ 1883-4,	3,963
Increase,	64

Average whole number of pupils enrolled 1884-85,	3,356.5
“ “ “ “ “ 1883-4,	3,275.9
Increase,	80.6
Average number of pupils in daily attendance,	
1884-85,	3,047.2
Average number of pupils in daily attendance,	
1883-4,	2,992.9
Increase,	54.3
Average per cent of daily attendance, 1884-5,	90.8
“ “ “ “ 1883-4,	91.4
Decrease, . . . . .	.6
Whole number of tardinesses, 1884-5,	4,955
“ “ “ 1883-4,	5,045
Decrease,	90
Whole number of pupils enrolled in Evening	
School, 1884-5,	110
Whole number of pupils enrolled in Evening	
School, 1883-4,	125
Decrease,	15
Average number in attendance, 1884-5,	62
“ “ “ 1883-4,	61
Increase,	1

A more detailed exhibit of the statistics of the schools will be found in the tables appended to this report.

Table I shows the number of persons in the city between five and fifteen years of age, May 1, 1881-5, by wards.

Table II shows the number of rooms, halls, sittings, pupils, teachers, number of pupils to a teacher, number of pupils over fifteen years of age and number under five years of age, in each school, May 1, 1885.

Table III shows the semi-quarterly attendance, by schools, for the year ending June 26, 1885.

Table IV shows the total enrolment, attendance, etc., by schools, for the year ending June 26, 1885.

Table V shows the number of pupils and their average age, by grades and classes, in September, 1884.

Table VI shows the annual enrolment in each grade and class, in September, 1876-1884.

Table VII shows the percentage of the total annual enrolment in each grade and class, in September, 1876-1884.

Table VIII shows the distribution of the pupils in the High School by classes and courses of study.

REMARKS.

The school population of the city on the first day of May, 1885, was 3,611, a decrease of forty-two as compared with the year 1884. By reference to Table I in the Appendix, it will be seen that the decrease was in the first, third, fifth and seventh wards. In the fourth and sixth wards there was an increase. In the second ward there was no change.

The number of pupils between five and fifteen years of age attending the public schools on the first day of May, 1885, was 2,891. The number in private schools was 199, making the total number of pupils between five and fifteen years of age in the public schools of the city and in private schools on the first day of May, 1885, 3,090. Deducting this sum from 3,611, the total school population of the city, May 1, 1885, we have 521, which is the number of persons in the city, between five and fifteen years of age, not attending any school, public or private, on the first day of May, 1885. Of this number, 34 were at work in mills and elsewhere, and 333, nearly all of whom were under seven years of age, were at home. The remaining 154 I am unable to account for.

SCHOOL BUILDINGS.

The number of school buildings in use during the past year was nineteen. Eighteen of these are the property of the city. The school at Thompsonville occupies a rented building. The whole number of sittings, including those in the leased building, was 4,304.

I beg leave again to call the attention of the Board to the need of repairs upon the school buildings, and to urge that arrangements may be made for the completion of the work before the close of the summer vacation, in order that there may be no confusion or delay at the opening of the next school year. With proper forethought many of the minor repairs may be made during the April vacation. As no new school buildings are now in process of erection, the present time would seem to be favorable for the prosecution of this work. Of the repairs needed the following are the most urgent. Some of them should have immediate attention. The health and comfort of the children demand it :

1. The cellars of all the buildings, except those recently erected, should be cleaned and whitewashed.

2. The ceilings of the rooms and halls should be whitened, and the walls should be kalsomined in colors that will be agreeable to the eyes.

3. Three of the buildings need new water-closets, and some five or more need to be painted.

4. The desks and chairs of twenty or more rooms should be rearranged, so that the light may fall upon the left side of the pupil, and that a cross light may be avoided as much as possible.

5. Registers should be placed in the floors of each of the rooms at the Claffin school building for the use of the pupils in cold and stormy weather, and such changes should be made

in the heating apparatus as will provide for the proper heating of the halls and wardrobes.

6. There is need of more light in the halls of the Hyde, Claflin and Adams buildings if they are to be used permanently for study and recitation. It is a serious question, however, if the permanent use of the halls for these purposes will be satisfactory to the patrons of our schools. Should you decide to discontinue the use of these halls, additional accommodations for the Claflin, Adams and Hyde schools will become an immediate necessity.

7. In this connection I would suggest the need of better accommodations for the school at Thompsonville. The leased building now occupied by the school is not suitable for the purpose. It is inconvenient, unattractive, and deficient in regard to light, ventilation, and other essential appointments.

GENERAL CONDITION.

The work of the schools was retarded by a period of excessive heat at the opening of the school year, and was seriously interrupted during the winter months by an unusual prevalence of sickness among the children. By the earnest efforts of teachers and pupils and the hearty co-operation of the parents, these unfavorable conditions were overcome to a great extent, and I am pleased to report that the schools have made substantial progress.

Some improvement has been made in the method of instruction. This is especially true of the instruction in reading and arithmetic. It is also true to some extent of geography and history. The topical method of instruction and recitation is pursued more largely than before and with satisfactory results.

Special attention has been given to the training of pupils to the habit of close and continued application. In those schools in which there are two or more grades each grade recites by itself. If a school has only one grade it is divided into sections, and each section recites separately. If it be a grammar grade, it is divided into two sections; if a primary grade, it is divided into two or more sections. Thus the pupil is given more time for study, for patient personal endeavor, for wrestling with difficulties single-handed, for overcoming obstacles alone and unassisted; in short, for learning to think, and, above all, for feeling the intense satisfaction and exquisite delight that come from the consciousness of personal effort persistently put forth and successfully directed. We learn to think by thinking, and to the attainment of this object no royal road has yet been discovered. The old-time ungraded district school had one advantage that did much to compensate for the disadvantages of such an organization. It compelled the pupil to do his own thinking. The teacher had not time to do it for him. To teach a child to think is no easy task. It is much easier to do the thinking for him. And just here, in my judgment, is the danger to our modern system of graded schools. And the more complete the grading, the greater is the danger. There is a constant temptation to the teacher to substitute the pouring-in process with its shallow and ephemeral results, for the substantial and enduring work of mind-training. No teacher of a single grade is ever free from this temptation. It is a constant obstacle to the achievement of the highest success. Years of careful observation have confirmed me in this judgment. The difficulty may be remedied in two ways. Two grades or two divisions of different grades may be assigned to each teacher, or schools of a single grade may be divided into two sections. Both of these plans of organization

are now in operation in our schools, and we shall have abundant opportunity to observe them and to make choice between them. I commend the subject to your consideration.

The discipline in most of the schools has been satisfactory. Few complaints have been made to me by either pupils or parents, and, in every instance, the differences have been adjusted without difficulty. This fact is full of encouragement, in that it indicates that the people are in harmony with the methods pursued in our schools, and are cordially co-operating with the teachers in their work. There can be little friction in the management of our schools if parents and teachers will confer together freely in a spirit of mutual goodwill, having regard only to the advancement of the best interests of the schools.

FREE TEXT BOOKS.

The State Legislature passed an act in March, 1884, requiring the cities and towns of this Commonwealth to furnish all text-books and other school supplies free of charge to the pupils of the public schools. This statute went into operation on the first day of August, 1884. The text of the statute reads as follows:

Section 1. The school committee of every city and town shall purchase, at the expense of said city or town, text books and other school supplies used in the public schools, and said text-books and supplies shall be loaned to the pupils of said public schools free of charge, subject to such rules and regulations as to care and custody as the school committee may prescribe.

Sect. 2. Pupils supplied with text-books at the time of the passage of this act shall not be supplied with similar books by the committee until needed.

Sect. 3. This act shall take effect upon the first day of August, 1884.

In compliance with the provisions of this statute, the text-books and other school supplies have been furnished, free of charge, to all the pupils in our public schools during the past year.

The method of purchase and distribution is briefly as follows: The purchases are made by the superintendent on requisition of the head-master of the High School and of the masters of the grammar schools. The goods, with a bill of the same, are sent direct to the master on whose requisition they were ordered. On receipt of the goods, the bill, if found correct, is indorsed by the master, and forwarded to the superintendent. It is then compared with the order-book and is verified as to prices, discounts, &c., and, if found correct, is delivered to the chairman of the Committee on Accounts and Printing a few days before the regular monthly meeting of the Board. The head-master of the High School and the grammar masters thus become the custodians of all the books and other supplies used in the schools under their charge, and distribute the same among their several schools on requisition of the assistant teachers. The assistant teachers loan the books to the pupils and are responsible for their safe-keeping and return. The superintendent keeps a book account with each master debiting him with the books he receives, and crediting him with those that are worn out or are transferred to some other district. This account is compared with that of the master twice each year. The masters, in turn, keep a book account with their assistant teachers, debiting them with the books delivered to them from time to time, and crediting them with those that they return. At the close of each school year the books are called in by the several masters, and are subjected to a careful inspection.

Such of the books as are worn out are cancelled, and those that are worth repairing are sent to a bindery for that purpose.

Books are loaned to pupils on the following conditions :

1. They are to be carefully used, and not marked or defaced.

2. If a book is lost or injured, it is paid for by the pupil using it.

3. If the pupil leaves school, the books must be returned to the teacher who loaned them.

Practically, however, few books are loaned to pupils for exclusive use, except in the High School. In the five lower grades there are none that are thus loaned. And above the fifth grade the books that are loaned are chiefly those that are used for home study. Many of the books, notably Readers and Mental Arithmetics, are never in the hands of the pupils except during the time of recitation. Each pupil, however, is held responsible for a book while it is in his possession, whether it is for his temporary or exclusive use.

There is always more or less danger of neglect and waste of public property. School property is by no means an exception to this rule. It is believed, however, that the plan we have adopted for the delivery, distribution, and care of our free text-books will be found to be safe and effective.

The number of text-books in use during the past school year was 21,453; the number of reference-books was 1,339. They were distributed as follows :

	Text Books.	Reference Books.
High	2,450	136
Mason	2,990	208
Hyde	1,208	68
Prospect	1,993	119
Hamilton	758	80
Williams	1,574	135
Pierce	2,715	206
Clafin	1,304	119
Adams	1,107	59
Eliot	2,291	83
Bigelow	5,839	126
Evening	221	0
Total	<hr/> 21,453	<hr/> 1,339

It is too early to judge definitely of the practical working of the free-text-book law. That it will be attended with some disadvantages, there can be no doubt. The following advantages, however, may reasonably be expected to result.

1. It effects a saving of time. Under the system of individual purchases, a delay of a week, or even more, was not unusual at the opening of the schools in September. The cost of our schools is, in round numbers, five hundred dollars a day, reckoning two hundred school days to the year. Viewed from this point, a week's delay becomes a matter of grave importance. Under the present system, the work of the school may begin at once. There need not be a delay of a single hour.

2. It effects a saving of expense. First, the cost of the books is less. The individual pays retail prices; the city buys at lowest wholesale prices. On account of the exceptionally large discount allowed on this class of merchandise, the difference between these prices is considerable, sometimes amounting to fifty per cent. of the retail price. Again, under the new system the books are used till they are worn

out. In the case of individual ownership, they are often thrown aside after being used for a few months or possibly a year.

3. It exerts a healthful influence upon character. The pupil is required to use the books with care, and to return them without spot or defacement of any kind. He is thus taught to respect public property. This is a moral advantage whose value cannot be estimated in dollars and cents.

4. It tends to increase the average period of school-life.

The purchase of school-books for a large family of children imposes a heavy tax upon the parents. In many instances this tax becomes a greater burden than the parents are willing or able to bear, and the children are taken out of school at an early age or are compelled to wear the badge of pauperism by having their books supplied at the public expense. Under the operation of this law the public school is free to all. It recognizes no distinction between the child of poverty and the child of wealth. Of the large number of children who are enrolled in the lowest grades of our schools, only a very small percentage continue till the highest grade is reached. It is believed that the good effects of this law will appear in the constantly increasing number of those who persevere to the end. The longer the children continue at school, the better prepared are they to discharge intelligently the duties of citizenship. Hence, every day that is added to the average duration of school life is a positive gain to the Commonwealth.

5. It secures to the schools better books and appliances, and a larger variety of them, than heretofore, and thus leads the way to greater flexibility in the work of the school room. This is an educational advantage whose value cannot be overestimated. Indeed, this advantage, in my judgment, outweighs all the others. A single case will be sufficient for illustration:

Each of our primary schools is furnished with a variety of Readers, and most of the pupils read from five to ten different books during the school-year. This would be impossible of accomplishment under the old system, for no Committee would venture to require a parent to buy ten Readers for his child in a single year. The enactment of this law can be justified abundantly on economic grounds, but I anticipate a still stronger justification of it from its beneficent influence in broadening, deepening, and enriching the methods of instruction in our schools.

Objection has been made to this law, in that it increases taxation. It is claimed that the reason urged for furnishing school-books at the public expense apply with equal force to the furnishing of food, shelter and clothing. This argument ignores the principle upon which the law is founded. The State makes the education of its youth compulsory, and thereby makes school-books a necessity; while food, shelter and clothing are a necessity independent of State enactment. Furthermore, the State requires the school authorities to prescribe the books that shall be used, and prohibits the use of all others. It leaves to the citizen no option whatever. Under these circumstances the duty of the State is plain. Having made school-books a necessity, it can not neglect to make them free. If it was justified in taking the first step, the second follows as a logical sequence. Compulsory education and free text-books must stand or fall together.

SCHOOL SESSIONS AND RECESSES.

The second paragraph of section 4, chapter I, of the printed regulations for the public schools, reads as follows:—

“The grammar and primary schools shall have two sessions each day. The morning session shall begin at nine o'clock and end at twelve o'clock, including a recess of twenty minutes at half-past ten o'clock. The afternoon session shall begin at two o'clock and end at four o'clock, with a recess, in the primary grades, of fifteen minutes at three o'clock.”

At the regular meeting of the Board, in February, 1883, it was ordered that the morning recess be discontinued for one month, in the grammar grades, and that the morning sessions, in the grammar and primary grades, be shortened thirty minutes. A similar order was passed from month to month till May, 1884. At the regular meeting of the Board, May 28, 1884, it was ordered that section 4, chapter I, of the regulations, be amended so that the second paragraph of said section shall read as follows:

“The grammar and primary schools shall have two sessions each day. The morning session shall begin at nine o'clock and end at half-past eleven o'clock, with a recess in the primary grades, of fifteen minutes at half-past ten o'clock. The afternoon session shall begin at two o'clock and end at four o'clock, with a recess, in the primary grades, of fifteen minutes at three o'clock.”

The order of the Board contemplated a radical change in school management. Hence it was well to delay final judgment till your own observation and the experience of others should enable you to act with that degree of intelligence that the importance of the subject demanded.

The "no recess" plan has been in operation about five years in this and other states. Among the first places to adopt it, outside of our own State, were the cities of Owego, Albany, Rochester, Troy, Cohoes and Newburgh, in New York. It has been discussed in teachers' conventions, in reports of school committees, in educational journals, and in the public press. Its practical working has been observed and carefully studied by thousands of teachers, parents and friends of education. It is a significant fact that, "as far as known, wherever the experiment has been tried it has been approved and permanently adopted."

Charles W. Cole, Superintendent of Schools, Albany, N. Y., in an admirable paper read before the State Teachers' Association of Massachusetts, has discussed this subject with a good deal of thoroughness. With your permission I will quote from his remarks somewhat at length. After a brief history of the plan, and an explanation of the Albany schedule of school sessions and intermissions, which is substantially the same as our own, the author of the paper says:—

"Two conditions must be fulfilled before general recesses can be dispersed with with complete satisfaction: the school-room must be well ventilated and there must be the widest liberty of individual recesses. When these conditions are satisfied I believe not merely that there will be no danger in omitting the general recesses, but that the health, happiness and intellectual and moral development of pupils will be promoted. One of the chief considerations in framing a schedule of school work is, unquestionably, how it will affect the health of the pupil. The schedule herein advocated will promote the healthfulness of school life :

"By preventing exposure to inclement weather. It will not do to say that teachers should take precautions against this danger. The schedule calls for a recess, the

pupils are eager to play, the teachers are glad to be free, and the weather will not be scanned very closely—it is hard to draw the line—errors of judgment are frequent, and the exposure follows.

“By avoiding the danger arising from the sudden return of children glowing with exercise to a school-room whose temperature has been purposely reduced for sanitary reasons.

“By reducing the liability to injury from accidental collision.

“Not unfrequently have children been seriously injured through the rough play of vigorous boys and girls, who, in their eagerness to make the most of their brief respite from study, seldom pause in their active sports for such obstacles as smaller children. Indeed, it is marvelous that many more accidents of this kind do not occur in contracted city school-yards. A father, who has four little ones attending our schools, lately thanked me heartily for my instrumentality in removing his anxiety on this score, and assured me that the sentiment was common among parents.

“By affording practically a longer time for out-door life.

“Again, the new plan promotes good order and simplifies discipline. It is the unanimous testimony of teachers that fully one-half of the cases of disorder that have called for their intervention in the past have arisen from collisions of various kinds occurring during recesses.

“Still another advantage arising from the no-recess plan is that the opportunities of exercising the petty tyranny, so dear to too many boys and girls, have been greatly lessened. How many a child has stood timidly on the verge of the playground, not daring to enter into active sport from fear of oppression from the little tyrant of his field! The claim that a general recess develops the traits of character that

make leaders in active life is, in my estimation, wholly unfounded. The circumstances and the elements of training that evolve leadership are not sensibly curtailed by the lack of school recesses.

"One of the weightiest considerations in favor of the change under discussion is that the opportunities of moral contamination during school-hours are reduced to a minimum. During recess the widest, almost the only, opportunity occurs for the evil communications that corrupt good manners; while in the school-room, in the presence of the ever-watchful teacher, when attention is absorbed in recitation or study, few chances are afforded for the exertion of evil influences.

"Again, the longer interval between the two sessions serves family convenience.

"Still further, the continuity of an unbroken school session tends to concentration of thought upon lessons, and to the formation of habits of study, as well as to the giving of that willing attention so essential to symmetrical development.

"Another very important consideration is the definitely ascertained fact that our schools are attended much more largely by that class of children whom you will readily recognize under the title 'desirable scholars.' Parents who have hitherto dreaded the evils coincident with the commingling of pupils on crowded play-grounds are sending their children to public schools more freely.

"Among all the objections raised to the discontinuance of recesses, the only one upon which any real stress can be laid is that the health of pupils may be materially injured.

"The hygienic objection is, I think, fully met by the provision of our plan which gives to pupils the utmost liberty of personal recess. But, it is urged, is not the work of teachers

constantly interrupted by this provision? My answer to this objection is, that requests have diminished, not increased. This has resulted partly from the conformity of personal habits to the changed conditions, and partly to the formation of habits of consecutive and absorbing study.

“A wise administration of the new plan calls, without doubt, for several precautions, which suggest themselves naturally. A continuous strain of study and recitation must not be kept upon pupils during the entire session. A few moments’ interval for mental rest, with liberty of communication, or for calisthenic exercises, must be given between recitations. Individual recesses must be granted whenever asked for. Various devices have been adopted in order to conform to this regulation without loss of time.

“Those who have the best control and who experience the least trouble, place no restriction upon the privilege. A pupil desiring a recess rises and passes noiselessly from the room and as noiselessly returns. There is no interruption, and, with proper ventilation, there is no possibility of injury to health when the teacher is so completely the mistress of the situation as to be able to use this last expedient without friction.

“When the ventilation is not good, the windows and doors should be opened, and the air renewed, while the pupils march and exercise actively, as often as necessary. Even in well-ventilated rooms it is well to devote a few moments to this purpose about midway of each session.

“The argument has been adduced against the abolition of recesses that it prevents that commingling of children of all conditions of life which has tended to keep alive the democratic spirit so essential to the preservation of our free institutions. Did school recesses furnish the only chance for children to meet upon common ground, there might be some

force in the argument. But all who are familiar with the daily out-door lives of city children in the streets and parks know that there is no lack of opportunity for the mental and physical attrition which will smooth the rough edges of prejudice and caste. Add to these opportunities the friction of daily contact in the schools, with the moral influence of its emulations, its victories and its defeats, and there need be no fear of decadence in the democratic spirit hitherto characterizing our public school children.

“Finally, what is the testimony of those who have tried the new plan?

“Superintendent Ellis, of Rochester, after a year’s experience, says :— ‘ Probably no change of so great importance has ever been made in the management of our schools against which so few objections have been urged, or that has met with such general approval. There is only one point concerning which there can be any question raised, and that is the physiological one. All the tests that we have been able to make lead me to believe that when the balance is struck at this point, between the recess and the no-recess plan, it will be found to be on the side of the latter.’

“Dr. Edward A. Moore, of the same city, President of the New-York State Board of Health, has been quoted to me as saying that, upon the whole, he believes the health of school children will be promoted by the no-recess plan.

“Physicians in Albany, Troy, Cohoes, Oswego and other places, who have had the opportunity of studying its practical workings, are well satisfied that this movement tends to the amelioration of the health of pupils.

“Parents and teachers, almost without exception, heartily approve the plan.

“It appears, then, that by the adoption of the no recess plan health is not impaired, but is probably promoted ; that

discipline is eased, that petty tyranny is abolished, that the moral influences of the schools are bettered, or rather the opportunities for evil influences are largely reduced, that family convenience is better served, that habits of study are strengthened, desirable pupils attracted, and, as a consequence of all these results, children are made wiser, happier and better."

The no-recess plan has been on trial in the schools of Newton nearly three years. During that time the morning session of the grammar and primary schools has begun at nine o'clock, and closed at half-past eleven, and the general recess, in the grammar grades, has been omitted. Individual recesses have been given whenever asked for. In this particular the largest liberty has been allowed, and, strange as it may seem, the cases of abuse of this privilege have been very rare. The testimony of the teachers on this point has been almost unanimous. Furthermore, it is doubtful if the number of individual recesses has increased under the new plan. On the contrary, many of the teachers are of the opinion that the number has diminished. It may be added that the children have taken kindly to the change, which is the strongest proof that it has received the approval of the parents.

During the past year I have made the new plan the subject of careful study. The medical profession has been consulted with special reference to its effect upon the health of the pupils. The testimony of parents and teachers has been carefully gathered. Its effects upon the schools, so far as it relates to the mental, moral and physical development of the pupils, have been diligently observed. The experience of others in similar fields of labor has been duly considered. As a result of this investigation I am convinced that the best interests of our schools demanded its permanent adoption.

I have dwelt upon this subject at considerable length, that we may place on record the reasons that have led to so important and so radical a change in the management of our schools. I am confident that the advantages that will result from the change will vindicate fully the wisdom of your action.

CONCLUSION.

In conclusion, I wish to tender my thanks to the teachers for their ready and generous co-operation in the measures proposed to advance the interests of the schools. My grateful acknowledgment is also due to the members of the Board for many acts of kindness and courtesy and for their forbearance and support.

Respectfully submitted,

THOMAS EMERSON,

Supt. of Schools.

NEWTONVILLE, Dec. 23, 1885.

APPENDIX.

STATISTICS IN DETAIL.

TABLE 1,--Number of Persons in the City between Five and Fifteen Years of Age, May 1, 1881-5, by Wards.

WARDS.	1881.	1882.	1883.	1884.	1885.	Increase.	Decrease
I.	453	463	512	541	527		14
II.	603	645	699	705	705		
III.	449	506	519	543	531		12
IV.	523	562	554	567	593	26	
V.	436	470	460	464	423		41
VI.	494	549	558	559	560	1	
VII.	294	263	262	274	272		2
Total	3,252	3,458	3,564	3,653	3,611	27	69

TABLE II.—Number of Rooms, Halls, Sittings, Pupils, Teachers, Number of Pupils to a Teacher, Number of Pupils over 15 years of age, and Number under 5 years of age, in each school, May 1, 1885.

SCHOOLS.	Rooms, (occupied.)	Rooms, (unoccu- pied.)	Halls.	Sittings.	Number of pupils.	Number of teachers.	Number of pupils to a teacher.	Number of pupils over 15 years of age.	Number of pupils under 5 years of age.
High,	*6			430	338	11	30.7	319	
Mason,	7	1	1	312	247	7	35.2	18	
Rice,	3	1		202	143	3	47.6		
Oak Hill,	1	1		40	22	1	22.		
Thompsonville,	1			40	38	1	38.		
Hyde,	4		1	266	191	5	38.2	9	5
Prospect,	6	2	1	271	210	6	35.	15	2
Hamilton,	4		1	163	109	4	27.2	4	
Williams,	7	1		333	257	7	36.7	15	
Pierce,	4		1	194	204	4	51.	24	
Davis,	4			220	205	4	51.2		
Franklin,	4			208	174	4	43.5		
Clafin,	5	1		188	184	5	36.8	11	
Adams,	5	1		269	196	5	39.2	22	
Eliot,	4			196	116	4	29.		
Jackson,	5	1		235	221	5	44.2		
Bigelow,	7	1	1	381	302	7	43.1	53	
Underwood,	4			195	177	4	44.2		
Lincoln,	1	1		131	44	1	44.		

* Also three recitation rooms, one laboratory, and one art room.

TABLE III.—Semi-Quarterly Attendance, etc., by Schools, for the Year ending June 26, 1885.

	I.				II.				III.				IV.							
	Average Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.	Average Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.	Average Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.	Average Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.				
Schools.																				
High	364.9	349.8	95.9	66	0	368.	348.	94.6	172	0	337.7	327.1	91.5	153	0	349.9	314.3	89.8	209	0
Mason	395.6	367.6	92.9	70	0	396.8	364.9	91.9	83	5	395.6	363.4	89.5	87	0	396.5	356.4	90.1	116	1
Rice																				
Oak Hill	18.8	17.6	93.6	4	0	20.	18.9	94.7	0	0	22.5	20	90.1	0	0	22.6	19.4	85.4	1	0
Thompsonville	39.	35.2	90.2	10	0	40.	36.	90.	7	0	40.	34.4	86.	4	2	40.	34.3	85.7	6	0
Hyde	205.7	195.4	94.6	21	0	203.9	188.7	92.2	28	4	204.3	180.5	92.6	51	0	204.9	182.1	88.8	25	2
Prospect	231.7	218.1	93.8	41	3	215.7	202.4	93.4	49	1	218.4	204.6	93.3	69	1	225.8	210.3	92.6	46	6
Hamilton	99.6	96.4	96.7	21	0	101.2	98.5	97.5	5	2	95.4	89.3	93.6	5	1	94.2	88.8	94.1	9	1
Williams	268.6	256.	95.1	34	6	277.1	258.	93.4	51	5	277.6	244.1	87.9	48	1	259.5	215.3	84.	56	3
Pierce	212.9	207.1	97.2	0	0	208.6	199.3	95.5	4	3	205.	195.3	93.3	3	2	207.4	196.2	97.1	5	1
Davis	198.2	191.8	96.9	12	7	204.7	195.2	9 8	11	9	194.6	183.8	94.6	17	5	193.8	179.4	92.8	11	2
Franklin	167.7	153.3	91.5	7	13	158.3	144.3	91.2	10	8	161.	142.	88.2	24	18	161.3	141.3	87.6	15	9
Cladin	171.1	160.5	94.	9	0	183.4	170.1	93.	16	0	181.5	163.1	90.6	32	4	179.3	157.6	88.7	19	0
Adams	199.1	191.2	95.9	8	0	201.	188.9	94.9	4	0	196.1	180.6	91.3	8	0	189.9	175.7	92.1	10	0
Eliot	140.1	123.3	88.1	14	0	136.3	121.8	89.6	10	0	131.8	117.7	89.2	12	0	111.7	96.4	86.5	15	0
Jackson	197.1	177.7	90.	13	0	189.8	169.9	89.1	16	1	192.9	173.6	90.1	29	0	166.9	135.5	81.2	15	0
Bigelow	305.5	292.7	95.8	57	0	311.8	291.	93.	45	0	307.7	283.6	92.1	51	0	305.8	283.5	92.7	79	0
Underwood	173.8	164.8	94.7	15	0	172.9	156.2	90.1	27	0	171.4	147.1	85.	27	0	169.	148.1	87.2	26	0
Lincoln	36.8	34.7	94.	15	1	37.6	35.	93.	13	0	38.2	35.4	92.8	22	1	35.6	31.3	87.9	14	0

TABLE III.—(Concluded.)

SCHOOL.	V.				VI.				VII.				VIII.			
	Average Whole Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.	Average Whole Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.	Average Whole Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.	Average Whole Number.	Average Attendance.	Percentage of Attendance.	Cases of Corporal Punishment.
High	351.	321.1	91.5	301	0	312.5	90.8	301	0	338.8	302.9	89.4	249	0	323.8	278.2
Mason	253.6	222.6	87.6	62	0	239.	86.	48	1	249.4	228.1	89.	59	0	235.5	210.2
Rice	131.4	110.	82.2	38	2	111.2	90.	21	0	144.7	127.4	88.7	33	1	148.5	131.5
Oak Hill	22.2	18.5	83.4	0	0	20.6	19.	92.5	1	20.9	19.2	91.6	1	0	21.	19.9
Thompsonville	38.8	33.	85.	7	1	38.2	34.3	89.7	7	38.	34.9	91.8	4	0	38.	35.1
Hyde	196.5	170.8	87.	31	0	188.5	159.5	85.2	18	0	191.9	172.7	88.8	33	7	198.9
Prospect	221.6	202.5	90.2	31	1	216.9	196.3	90.1	68	0	205.	184.8	89.5	22	2	183.
Hamilton	94.2	91.	96.5	11	2	97.7	93.2	95.4	4	2	110.5	107.1	96.3	10	1	114.
Williams	253.1	222.8	85.8	79	6	262.9	235.	89.8	67	2	251.8	215.1	86.2	60	2	238.5
Pierce	213.4	200.2	93.7	7	4	210.8	198.9	94.3	5	0	203.6	190.7	93.6	3	0	198.2
Davis	192.6	177.9	92.5	5	2	195.6	176.4	90.4	6	1	202.5	189.4	93.7	13	2	192.8
Franklin	156.9	139.4	88.6	15	12	152.2	134.5	88.2	21	10	176.	161.9	92.	11	9	175.2
Cladin	175.8	155.7	88.8	8	0	177.8	159.9	89.8	5	1	181.7	166.6	92.	14	0	175.1
Adams	188.9	173.5	91.4	12	0	200.5	188.3	93.9	4	1	210.3	192.5	93.1	7	2	203.
Eliot	114.2	99.6	87.2	15	0	116.9	101.6	87.5	24	0	116.6	101.7	86.9	11	0	111.5
Jackson	172.9	145.1	83.7	12	0	194.3	173.4	89.3	7	0	223.2	200.8	89.9	17	1	227.5
Bigelow	301.	276.3	91.8	91	0	289.2	274.5	91.8	63	0	298.1	271.9	91.4	85	0	286.4
Underwood	167.7	143.9	85.7	29	0	166.	47.	88.6	18	0	179.2	159.1	88.4	32	0	179.1
Lincoln	29.	25.9	89.6	9	0	38.5	35.4	91.9	11	0	41.8	42.	93.7	15	0	42.3

TABLE IV.

Total Enrolment, etc., by Schools, for the year ending
June 26, 1885.

SCHOOLS.	Whole Number of Pupils enrolled.	Average Whole Number.	Average Attendance.	Percentage of Attendance.	Cases of Tardiness.	Cases of Corporal Punishment.
High,	389	349.7	319.2	91.1	1647	0
Mason,	456	387.5	347.2	87.9	634	11
Oak Hill,	25	21.	19.1	90.7	8	0
Thompsonville,	43	39.	34.6	88.8	50	3
Hyde,	243	199.7	179.2	89.7	231	14
Prospect,	264	227.2	198.	92.5	363	14
Hamilton,	126	100.8	96.8	95.1	77	14
Williams,	312	261.1	231.6	88.6	436	27
Pierce,	233	207.4	196.9	95.1	28	11
Davis,	243	196.8	184.5	93.9	87	28
Franklin,	184	161.	146.5	89.5	112	81
Clafin,	199	178.2	161.3	90.3	126	5
Adams,	235	197.3	185.	93.2	64	4
Eliot,	156	122.3	107.6	88.	113	0
Jackson,	284	195.5	172.4	87.8	126	2
Bigelow,	354	301.9	279.5	92.5	552	0
Underwood,	233	172.3	153.1	88.3	198	0
Lincoln,	48	37.8	34.7	91.5	111	2
Total,	4029	3356.5	3047.2	90.8	4955	216

TABLE V.
Number of Pupils and their Average Age by Grades and Classes, in September, 1884.

SCHOOLS.	GRADES.									
	I.		II.		III.		IV.		V.	
	Av. Age		Av. Age		Av. Age		Av. Age		Av. Age	
	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.
	No. of Pupils.		No. of Pupils.		No. of Pupils.		No. of Pupils.		No. of Pupils.	
High	56	8	38	7	53	9	52	10	63	10
Mason	-	5	2	6	2	5	5	1	7	8
Oak Hill	-	5	14	7	8	5	33	11	24	11
Thompsonville	-	6	26	6	28	8	31	7	27	9
Hyde	-	2	40	7	37	6	9	10	10	11
Prospect	-	5	18	7	18	8	17	9	10	7
Hamilton	-	5	18	7	31	8	46	10	27	10
Williams	-	11	49	7	31	4	46	7	52	12
Pierce	-	-	-	-	-	-	-	-	-	-
Davis	-	6	58	7	46	9	41	8	15	12
Franklin	-	2	29	8	28	9	23	10	17	12
Cladun	-	6	38	7	23	4	15	11	12	8
Adams	-	5	19	8	26	3	22	10	18	12
Eliot	-	-	-	-	47	11	44	12	22	13
Jackson	-	7	62	8	52	7	63	9	54	12
Bigelow	-	-	-	-	75	11	-	-	-	-
Underwood	-	6	58	7	8	8	8	11	12	12
Lincoln	-	6	16	7	11	7	10	11	315	12
Total	605	5	467	7	436	8	412	10	411	11

TABLE VI.
Annual Enrolment in Each Grade and Class, in September, 1880-1884.

DATE.	GRADES.									CLASSES.				
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	IV.	III.	II.	I.	Total.
September, 1880 - -	404	372	376	321	296	342	260	221	162	104	97	60	43	3118
September, 1881 - -	530	386	381	394	270	312	311	211	150	114	58	77	37	3231
September, 1882 - -	510	436	405	353	403	237	266	225	180	104	92	51	49	3311
September, 1883 - -	514	454	436	398	369	298	210	183	166	125	78	70	40	3341
September, 1884 - -	605	467	436	412	411	315	260	185	165	145	113	77	54	3645

TABLE VII.
Percentage of the Total Annual Enrolment in each Grade and Class, in September, 1880-1884.

DATES.	GRADES.									CLASSES.				Total.
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	IV.	III.	II.	I.	
September, 1880, . .	14.9	11.9	12.1	10.3	9.5	11.	8.3	7.1	5.2	3.3	3.1	1.9	1.4	100
September, 1881, . .	16.4	11.9	11.8	12.2	8.4	9.7	9.6	6.5	4.6	3.6	1.8	2.4	1.1	100
September, 1882, . .	15.4	13.2	12.2	10.7	12.2	7.2	8.	6.8	5.4	3.1	2.8	1.5	1.5	100
September, 1883, . .	15.7	13.6	13.1	11.9	11.	8.8	6.3	5.2	5.	3.7	2.4	2.1	1.2	100
September, 1884, . .	16.6	12.8	12.	11.3	11.3	8.6	7.1	5.1	4.5	4.	3.1	2.1	1.5	100

TABLE VIII.
Distribution of Pupils in High School by Classes and Courses of Study.

CLASS,	GENERAL.		CLASSICAL.		MERCANTILE.		SPECIAL.		TOTAL.
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	
I, - - - - -	6	24	12	7	0	0	0	5	54
II, - - - - -	12	38	13	4	3	0	1	6	77
III, - - - - -	24	47	21	9	7	0	1	4	113
IV, - - - - -	36	35	29	33	4	0	1	7	145
Total, - - - - -	78	144	75	53	14	0	3	22	389

ROLL OF TEACHERS.

High School.

HEAD MASTER.

EDWARD H. CUTLER, Washington Street, Newton.

MASTER.

EZRA W. SAMPSON, Washington Street, Newtonville.

ASSISTANT MASTER.

S. WARREN DAVIS, River Street, West Newton.

ASSISTANTS.

CAROLINE SPEAR,	Walnut Park, Newton.
S. ALICE WORCESTER,	Highland Avenue, Newtonville.
M. ABBY SMITH,	Cabot Street, Newtonville.
MAYBELL P. DAVIS,	Highland Avenue, Newtonville.
EVELYN RICH,	Washington Park, Newtonville.
S. ALICE RANLETT,	Central Street, Auburndale.
MRS. LIDA P. UNDERHILL,	Watertown.

SPECIAL TEACHERS.

Military Drill.

J. P. B. FISKE, Cor. of Wolcott and Lexington Streets, Auburndale.

Calisthenics and Elocution.

JENNIE E. IRESON, 185 West Canton Street, Boston.

Drawing and Writing.

ADELINE V. POND, Lexington Street, Auburndale.

DISTRICTS.

NEWTON CENTRE.

N. B.—Roman numerals indicates grade. I-III, Primary; IV-IX, Grammar.

Mason School.

MASTER.

ALBERT L. HARWOOD, IX, Crescent Avenue, Newton Centre.

FIRST ASSISTANT.

DELLA E. DODGE, VIII, Warren Street, Newton Centre.

ASSISTANTS.

ELLEN S. BAKER, VII, Sumner Street, Newton Centre.
 MARIA F. WOOD, VI, Homer Street, Newton Centre.
 MARY TENNEY, V, No. 378 Tremont Street, Boston.
 ANNIE E. BANCROFT, IV, V, Station Street, Newton Centre.
 FANNIE E. LONGFELLOW, IV, Station Street, Newton Centre.

Rice School.

PRINCIPAL.

MYRA A. WILSON, III, Sumner Street, Newton Centre.

ASSISTANTS.

MARGARET MARTIN, II, Centre Street, Newton Centre.
 ELLEN M. COOK, I, Pelham Street, Newton Centre.

Oak Hill School.

PRINCIPAL.

C. HOWARD WILSON, I, II, III, IV, V, VI,
 Elgin Street, Newton Centre.

Thompsonville School.

PRINCIPAL.

HELEN A. DAVIS, I, II, Crescent Avenue, Newton Centre.

UPPER FALLS.

Hyde School.

MASTER.

GEORGE A. MOORE, VIII, IX, Floral Avenue, Newton Highlands.

FIRST ASSISTANT.

CHARLOTTE E. CAMERON, VI, VII,
 Lincoln Street, Newton Highlands.

ASSISTANTS.

GERTRUDE BLACKMAR, IV, V,
 No. 70 Commonwealth Avenue, Boston.
 N. GRACE GOULD, II, III, No. 29 Union Square, Boston.
 PHEBE E. CHURCHILL, I, Centre Street, Newton Highlands.

Prospect School.**MASTER.**

CHARLES E. HUSSEY, VIII, IX, High Street, Newton Upper Falls.

FIRST ASSISTANT.

MARTHA L. PERKINS, VI, VII,

Rockland Place, Newton Upper Falls.

ASSISTANTS.

ELLA F. CROOKER, IV, V, No. 876 Fourth Street, South Boston.

LUCY A. HAYWARD, III, IV, High Street, Newton Upper Falls.

LIZZIE W. EVERETT, II, High Street, Newton Upper Falls.

MRS. MARY P. FANNING, I.

Cor. Spring and Summer Streets, Newton Upper Falls.

LOWER FALLS.**Hamilton School.****MASTER.**

LUTHER E. LELAND, } V, VI, VII, VIII, IX, Cor. Washington
MRS. ELLEN M. LELAND, } and Beacon Streets, Newton L. Falls.

FIRST ASSISTANT.

ANNA G. SWAIN, III, IV, Grove Street, Newton Lower Falls.

ASSISTANT.

SARAH H. JUMPER, I, II, Grove Street, Newton Lower Falls.

Williams School.**MASTER.**

GEORGE L. CHANDLER, VII, VIII, IX, Auburn Street, Auburndale.

FIRST ASSISTANT.

ELIZABETH A. PINNOCK, V, VI, Walnut Street, Newtonville.

ASSISTANTS.

GRACE G. BILLINGS, V, Auburn Street, Auburndale.

LAURA SALTONSTALL, IV, Centre Street, Newton.

DORA A. ALLEN, III, Washington Street, West Newton.

HATTIE A. INGRAHAM, II, West Central Street, Natick.

ANN B. SMITH, I, North Main Street, Natick.

WEST NEWTON.

Pierce School.

MASTER.

LEVI F. WARREN, IX, Otis Street, West Newton.

FIRST ASSISTANT.

Mrs. SARAH A. WARREN, VII, VIII, Otis Street, West Newton.

ASSISTANTS.

M. ALICE WARREN, VII, Otis Street, West Newton.

ELIZA E. SIMMONS, VI, Henshaw Street, West Newton.

HELEN S. TOLMAN, V, Washington Street, West Newton.

Davis School.

PRINCIPAL.

ELLA G. BATES, IV, Otis Street, West Newton.

ASSISTANTS.

CALISTA S. WOOD, III. Highland Street, West Newton.

SUSAN E. COPELAND, II, Highland Street, West Newton.

SARAH E. FOSTER, I, Waltham Street, West Newton.

GERTRUDE A. ELDER, I. Davis Street, West Newton.

Franklin School.

PRINCIPAL.

ELIZABETH F. PADDOCK, V. VI, River Street, West Newton.

ASSISTANTS.

M. ISABEL JENKINS, III, IV,
Washington Street, Newton Lower Falls.

MRS. EMMA T WEEKS, II, III, River Street, West Newton.

MARGARET A. MAGUE, I, River Street, West Newton.

NEWTONVILLE.

Claflin School.

MASTER.

HERBERT F. SYLVESTER, VIII, IX, Bowers Street, Newtonville.

FIRST ASSISTANT.

LILLA T. WILDER, VI, VII, Walnut Street, Newtonville.

ASSISTANTS.

ELLEN M. HARRIGAN, IV, V, Washington Street, Newtonville.

ELLEN S. TEWKSBURY, II, III, Walnut Street, Newtonville.

MRS. LIZZIE F. JONES, I, II, Lake Street, Waltham.

Adams School.

MASTER.

WILLIAM A. SPINNEY, VIII, IX, Webster Street, West Newton.

FIRST ASSISTANT.

V. E. HAPGOOD, VI, VII, Crafts Street, Newtonville.

ASSISTANTS.

ABBIE I. FISKE, IV, V, Court Street, Newtonville.

ESTELLA M. HAYNES, II, III, No. 381 Columbus Avenue, Boston.

ANGELIA A. SMITH, I, Prescott Street, Newtonville.

Eliot School.

MASTER.

GEORGE G. EDWARDS, VII, VIII, Prescott Street, Newtonville.

FIRST ASSISTANT.

H. AUGUSTA MILLARD, VI, Lowell Street, Newtonville.

ASSISTANTS.

MRS. LOUISE W. CLELLAND, V, Watertown Street, Watertown.

MRS. ABBY J. CLARK, IV, Washington Park, Newtonville.

Jackson School.

PRINCIPAL.

ELIZA J. LOVELY, III, Gardner Street, Newton.

ASSISTANTS.

GERTRUDE G. TEWKSBURY, II, Walnut Street, Newtonville.

MARY A. WELLINGTON, II, Webster Street, West Newton.

GERTRUDE H. SMEAD, I, Court Street, Newtonville.

LOTTIE E. STEARNS, I, Watertown Street, Newton.

NEWTON.

Bigelow School.

MASTER.

H. CHAPIN SAWIN, IX, Maple Place, Newton.

FIRST ASSISTANT.

Mrs. M. M. BAKEMAN, VIII, No. 28 Upton Street, Boston.

ASSISTANTS.

ANNIE E. GEORGE, VII,	Jefferson Street, Newton.
S. LOUISE SHELTON, VI,	Bennington Street, Newton.
AUGUSTA A. LENTELL, V,	Jefferson Street, Newton.
EMILY J. DYER, V,	Newtonville Avenue, Newton.
ELIZABETH AYLES, IV,	Waverley Avenue, Newton.

Underwood School.

PRINCIPAL.

CHARLOTTE E. SEWALL, III, Myrtle Street, Winchester.

ASSISTANTS.

ANNIE L. WOOD, II, III,	Wesley Street, Newton.
ADA L. DONKIN, II,	Brook Street, Newton.
JOSEPHINE W. LITTLEFIELD, I,	Richardson Street, Newton.

Lincoln School.

PRINCIPAL.

Mrs. NELLIE B. RAND, I, II, Oak Avenue, West Newton.

SPECIAL TEACHERS.

Music.

Sewing.

JULIA GRANT,	Washington Street, Newton.
Mrs. ELLEN L. BOND,	Paul Street, Newton Centre.

SECRETARY'S REPORT.

APPROPRIATIONS AND EXPENDITURES FOR 1885.

General appropriation for schools,	\$95,650 00	
Received from the dog tax,	1,841 45	
	<u>\$97,491 45</u>	
Transferred to school incidentals,	\$4,311 02	
" " conveyance of pupils,	250 00	
" " evening schools,	164 54	
	<u>4,728 56</u>	
	\$92,762 89	
Amount paid to the superintendent,	\$2,590 00	
" " teachers,	77,424 51	
" " janitors,	5,875 14	
" " secretary,	300 00	
" for fuel,	633 11	
	<u>92,522 76</u>	
Balance unexpended,	\$240 13	
School incidentals,	\$9,500 00	
Transferred from general appropriation,	4,311 02	
Amount expended,	<u>\$13,811 02</u>	
Evening schools,	\$550 00	
Transferred from general appropriation,	167 54	
Amount expended,	<u>\$717 54</u>	
Conveyance of pupils,	\$650 00	
Transferred from general appropriation,	250 00	
Amount expended,	<u>\$900 00</u>	

RECAPITULATION.

APPROPRIATIONS.

Total amount, including dog tax, \$108,191 45

EXPENDITURES.

General appropriation, \$92,522 76

Books, supplies, furniture and incidentals, . . . 13,811 02

Evening schools, 717 54

Conveyance of pupils, 900 00

Total amount expended, 107,951 32

Balance unexpended, \$240 13

ISAAC HAGAR,

Secretary.

CITY OF NEWTON.

ANNUAL REPORT

— OF —

THE TRUSTEES

— OF THE —

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For the Year Ending Dec. 31, 1885.



NEWTON:
PRESS OF THE NEWTON JOURNAL.
1886.

BOARD OF TRUSTEES, 1885.

At Large.

JOHN S. FARLOW	
WILLIAM CLAFLIN	TERM EXPIRES 1886.
A. LAWRENCE EDMANDS	TERM EXPIRES 1887.
JULIUS L. CLARKE	TERM EXPIRES 1888.
BRADFORD K. PEIRCE	TERM EXPIRES 1889.

From the Board of Aldermen.

NOAH W. FARLEY	TERM EXPIRES 1886.
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From the Board of Common Council.

JOHN F. HECKMAN	TERM EXPIRES 1886.
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BOARD OF TRUSTEES, 1886.

At Large.

JOHN S. FARLOW	
WILLIAM CLAFLIN	
A. LAWRENCE EDMANDS	TERM EXPIRES 1887.
JULIUS L. CLARKE	TERM EXPIRES 1888.
BRADFORD K. PEIRCE	TERM EXPIRES 1889.

From the Board of Aldermen.

GEORGE M. FISKE	TERM EXPIRES 1887.
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From the Board of Common Council.

ELLIS W. REDPATH	TERM EXPIRES 1887.
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ORGANIZATION FOR THE YEAR 1885.

President.

JOHN S. FARLOW.

Secretary.

JULIUS L. CLARKE.

Committee on the Library.

PRESIDENT, *ex officio*,

BRADFORD K. PEIRCE.

WILLIAM CLAFLIN.

JULIUS L. CLARKE.

Committee on the Building.

PRESIDENT, *ex officio*,

A. LAWRENCE EDMANDS.

JOHN F. HECKMAN.

NOAH W. FARLEY.

Superintendent.

BRADFORD K. PEIRCE.

Librarian.

HANNAH P. JAMES.

Assistant Librarians.

ELIZABETH P. THURSTON.

ETTA P. CLEAVELAND.

LOUISE J. SMALLWOOD.

MILLIE E. MICHAELS.

Janitor.

JAMES J. TOWER.

ORGANIZATION FOR THE YEAR 1886.

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Committee on the Building.

PRESIDENT, <i>ex officio</i> ,	ELLIS W. REDPATH.
A. LAWRENCE EDMANDS.	GEORGE M. FISKE.

Superintendent.

BRADFORD K. PEIRCE.

Librarian.

HANNAH P. JAMES.

Assistant Librarians.

ELIZABETH P. THURSTON.	LOUISE J. SMALLWOOD.
ETTA P. CLEAVELAND.	MILLIE E. MICHAELS.

Janitor.

JAMES J. TOWER.

TRUSTEES' REPORT.

*To His Honor the Mayor, and the City Council of Newton,
Mass.:—*

For the details of the operation of the Newton Free Library for the year ending December 31st, 1885, the Trustees ask reference to the report of the Superintendent, herewith submitted. His report is so full and comprehensive that the Trustees can add but little thereto. They approve and confirm the views and recommendations therein set forth.

It is with constantly renewing pleasure that the Trustees witness from year to year, the steady growth in efficiency and usefulness of the library as an educator. They commend to the careful consideration of the City Council, what the Superintendent says in his report in regard to the arrangement made during the past year with the masters of the city schools, for supplying them with books suited to the various classes in the schools, and to be used as aids to the teachers' instructions.

Tables A and B, in the appendix to the Superintendent's report, show the receipts the past year to have been, from appropriations made by the City Council.		\$7,500 00
Balance from last year,		38
From fines, etc.,		348 64
		<hr/>
		\$7,849 02
The expenditures for the same period,		7,847 47
		<hr/>
Leaving a balance at the close of the year of		\$ 1 55

There has also been expended during the year, from the income derived from the "Jewett Art Fund,"	\$318 78
From the "Alden Speare Fund,"	57 80
And from the "Read Fund,"	401 19

\$777 77

The accounts of these several funds are kept separate and entirely distinct from the appropriations made by the City Council from the City Treasury. Isaac T. Burr, Esq., is treasurer of the "Jewett Art" and "Alden Speare," and A. Lawrence Edmands, Esq., of the "Read Fund." The income derived from these funds is of great service in enabling the Trustees to procure works on science and art that are necessarily costly and which they could not so well procure under the limited appropriations from the City Treasury.

The gifts and bequests to the library, which were the foundations on which these funds are based, were intended by the donors as means for *enlarging* its usefulness, and not with any idea or expectation that the City Council would, because or by reason of such bequests or gifts, reduce the amount of the appropriation asked for annually by the Trustees for its support, as was the case last year, when the appropriation was reduced five hundred dollars from that of the previous year, it having been then urged, in favor of such reduction, that the income to be derived from the "Read Fund" would make up for the reduction in the city's appropriation.

It was very gratifying to the Trustees to learn that the appropriation for the current year had been restored to the amount they asked for, and they sincerely hope that no diminution will be made hereafter in the city's annual appropriation for the library, by reason of any donations or bequests it has received or may be fortunate enough to obtain in the future.

The Trustees would again urge on the City Council the pressing necessity for an immediate enlargement of the library building. Plans for the proposed enlargement, and the pressing necessity therefor, were submitted last autumn to a committee of the City Council. That committee made favorable report thereon. The Trustees respectfully ask your attention to their petition in the matter and to the report of the late City Council's committee thereon, in the hope that early and favorable action may be had.

Respectfully submitted by the Board of Trustees,

JOHN S. FARLOW, President.



SUPERINTENDENT'S REPORT.

To the Board of Trustees of the Newton Free Library:—

GENTLEMEN:—The appropriation asked by the Trustees of the Library for last year was \$8,500, in accordance with a carefully revised schedule of expenses, but the City Council appropriated only \$7,500. By delaying the publication of a bulletin, the want of which has been severely felt by the patrons of the library, by postponing the rebinding of many books requiring it, by using the funds given by a generous citizen for the benefit of the library, which ought to be devoted to special purposes, and by employing the services of one important assistant only half of her time, we have been able to supply the library with the current publications of the year, and to make a little progress in securing for our shelves what is lacking in general literature. As many of the books supplied in duplicates for the public schools were small and comparatively inexpensive, and a large number of gifts have been received, we shall show as great an increase in the number of volumes added to our shelves the present year as heretofore. The total accessions for the year have been 1576. One hundred and twenty-two volumes, chiefly worn out, have been withdrawn from circulation, making the net increase 1,454.

Among the valuable donations which have been received are all the volumes, with the exception of two, necessary to complete a full set of the Congressional Globe. We have also a complete file of the Congressional Record. Our thanks are due to the Secretary of the Interior, who has given spe-

cial attention to the completion of sets of public documents in the large libraries of the country. Ex-Mayor Pulsifer, not for the first time, has placed us under special obligations by the gift of a full set of *Hunt's Merchants' Magazine*. There are other valuable sets of bound periodicals that our citizens possibly find crowding their home shelves, that will be most gratefully welcomed in the ampler accommodations of the library. We have hoped to receive a set of the *Gentleman's Magazine*, now so expensive and difficult to obtain in a complete series.

There are now in the library 23,309 volumes. The very full and instructive tables given at the close of the report will show the care with which the different classes of literature have received additions during the year, and the growing demand for substantial and improving reading in the community. Of fiction and juvenile books, 188 volumes have been added; of travel and geography, 149; of biography, 139; of history, 184; of natural and social science, 254; of theology, 35; of essays, poetry and drama, 126. Two hundred and seventeen volumes have been added to the reference library. The circulation of books has enjoyed a wholesome increase during the past year. In the last three months 1761 volumes over the number sent out during the same period of the previous year, were distributed. The largest daily circulation was 541, March 14th, and the smallest, 71, on August 8th, when a very violent storm occurred. There have been in all 13,533 names registered to draw books from the library. Last year a new register was opened and the registration of all the patrons was required. The object of the registration was not at once understood, and some little embarrassment and temporary decrease in circulation was occasioned. The new regulation commenced June 8th, and the signatures reached 3,444 at the close of the year.

There have been, during the year, 83,938 volumes delivered from the library for home use, while constantly the inconvenient accommodations of Edmands' Hall have been used, with much discomfort, by many persons examining a large number of authorities for special purposes. All these will bear emphatic testimony to the urgency of the call for the additional rooms in the rear of the present buildings, for which, we are grateful to know, that a favorable report has been made to the City Council, by the Committee on Public Property of last year.

This growing and important use of the library for reference, suggests also the occasion for the annual increase of other than the current publications of the day. It is to the Public Library that our citizens come for any special and extended line of study and investigation. Few private libraries can meet these necessities. In his inimitable discourse, delivered at the opening of the new Public Library building in Chelsea, Hon. James Russell Lowell said: "A public library, of course, must be far wider in its scope. It should contain something for all tastes, as well as the material for a thorough grounding in all branches of knowledge. It should be rich in books of reference, in encyclopedia, * * * * it should contain stores of history, which, if it do not always deserve the pompous title which Bolingbroke gave it,—of philosophy teaching by example—certainly teaches many things profitable for us to know and lay to heart." It is just here, even with our present quite large collection, that we feel our limitations as a consulting and educating library for the people. Mr. Lowell says in the same address, "the opening of a free library is a most important event in the history of a town. A college training is an excellent thing, but after all, the better part of every man's education is that which he gives himself, and it is for this that a good library should fur-

nish the opportunity and the means." It is becoming more and more the excellent custom in our community to take up courses of study and reading in history, philosophy, *belles lettres*, or science. Particular eras of history are carefully studied. We are endeavoring to fill up our catalogue with the standard works in these various lines, but even in the historical literature of our own country there are many ungrateful gaps that we are seeking to close.

It is this higher office of the library that we are glad to know is becoming more and better appreciated. Mr. Lowell says:—"Formerly the duty of the librarian was considered too much that of a watch dog, to keep people as much as possible away from the books, and to hand them over to his successor as little worn by use as he could. Librarians now, it is pleasant to see, have a different notion of their trust, and are in the habit of preparing lists of such books as they think best worth reading." A very important branch of such a work as this, with no ordinary zeal, labor and intelligence, has been undertaken by the Librarian of this institution.

It has been for a number of years a question of interesting discussion among the managers and officers of public libraries, especially during the sessions of the American Library Association, how, not simply to keep the free library from becoming an embarrassment and injury to school children, but how, with the cooperation of the teachers, to make it a positive aid and to create, if possible, among them a taste for improving literature.

A very successful experiment of this character has been tried for the last three months in connection with the Newton Free Library. The plan, as yet, has been introduced into but a portion of the schools, but will be at once into the others. Masters and teachers offer us their heartiest cooperation and are warm in their expressions of interest and confi-

dence in the undertaking. The principal of the Bigelow School, Mr. H. C. Sawin, writes, in a note to the Superintendent, "I am very glad to welcome the Public Library as an ally to the Public School. In years past I have considered it antagonistic to the interests of the pupils, believing, with Dr. Taylor, of Andover, that 'scholars, while attending school, have no time for desultory reading,' but the efforts of the friends both of the library and the school, in Worcester, Providence, Boston, and more recently in our own city, are making the library one of the most efficient aids in the mental development of the young. The plan recently adopted and put in practice, of furnishing the teachers with a number of books relating to the subjects taught in the schools, will accomplish the two-fold object of illustrating and giving interest to the regular school work, and of guiding the pupil in the art of reading well. Mr. James Russell Lowell says, in his recent address, 'I sometimes think that our public schools undertake to teach too much, and that the older systems, which taught the three R's and taught them well, leaving natural selection to decide who should go farther, is better.' In educational work there is no sign more hopeful than the new relation of the public library to the public school, making it possible for the instructor of youth to teach the first and most important of the three R's more successfully. Hoping that the results of your efforts to aid the schools in their work will be all that can be desired, so that you will be encouraged to devise yet more liberal things for them, I remain sincerely yours.'

Each public school teacher receives ten cards upon which to draw books for his class from the library. The teacher sends to the library a list of topics which are being studied in the class, and asks that some works suited to the grade of the pupils may be sent to the school. The following list was

received from a grammar school master: "Please send me books on Mound Builders, Early Discoveries, Columbus, North American Indians, Colonial History, U. S. Constitution, U. S. Coinage, John Smith, Insects, China and Japan." Another teacher asks for books upon South America, as that is the portion of the globe which they have reached in their geography; and still another seeks for books upon Asia. Books are especially desired upon animals, particularly stories about them, for the younger classes. Works upon physics, geology, mineralogy, poetry, history, biography, in short any possible helps which the library can afford, are freely offered and zealously used. To give some idea of the character of the new reading among our school children, we append, at the close of the report, a list of the books which have already been placed in circulation among them. There have been many books of travel, science, history and biography, written and compiled within a short period, especially for the reading of young people and children. These works are finely illustrated and are calculated to arrest the attention of young readers, and to lend fresh interest and value to the study of their text-books. Many of the books are used by the teachers as rewards for good lessons, the children being permitted to take them home, or to read them in school after the lessons are completed. The librarian makes a personal visit to the schools, invites a short meeting with the teachers and explains the method of working with the library. This has never failed to awaken the interest of the teachers, and often arouses enthusiasm in the work. The immediate good accomplished in quickening the interest of pupils in their school studies, is but a small part of the beneficial results that must follow such an effort, if perseveringly continued. More than in any other way will a generation be trained up to relish and demand something besides a fictitious and sensational litera-

ture. The children discover what interesting books there are in the library, they copy the numbers upon their own cards, and we find them selecting these for their home reading. The teachers eagerly avail themselves of the opportunities afforded by their additional cards. One teacher tells us of a lad who had never accomplished anything in school until aroused by the inspiration of the illustrative books, in which he became greatly interested. Superintendent Emerson assures us of the enthusiasm awakened among the teachers of the schools over the new plan of reference books from the library. During the year the arrangement which has been so successfully effected in a few of the schools, will be introduced throughout the city.

In the three months in which the delivery to the schools has been made, 568 books have been issued to them. But six of the schools have as yet been visited, and some of those not until November, showing that the teachers generally have availed themselves of the privilege.

Last September the American Library Association held a very interesting and practical conference at Lake George, extending through several days, with representatives from libraries from all portions of the country, from the Dominion of Canada, and from Great Britain. The Superintendent and Librarian of the Newton Library enjoyed the profitable opportunity of attending these sessions. The reports of papers read and of the proceedings, fill one hundred and sixty quarto pages of the Library Journal. The discussions covers almost every point of interest in the construction and administration of libraries. No educational movement of the hour is attracting more attention. Immense sums, as of late in Chicago, and for the Pratt Library in Baltimore, are being devoted to the construction of public libraries, and soon hardly a considerable town will be without one. The college is local

and from its requirement of large endowments is not, and need not be, established except in accessible centres for large districts. But the library, like the public school, is becoming the necessity rather than the luxury of every town, and will necessarily have a large share in the advanced and practical education of the people. In the United States there are more than 5,000 public libraries, numbering over 300 volumes each. In them are collected more than 13,000,000 volumes of books. Over 500,000 are annually added to the number, more than 10,000,000 are distributed annually, with an expense of administration of over \$1,500,000.

Our city is fortunate, without any large outlay, to have a good foundation for a library that will easily keep pace with the wants of a rapidly growing and cultivated community. With the appropriation which the City Council has made this year, we shall be able to show good progress in every department.

Our library force remains the same as heretofore, and we trust it may continue through the year. Having had the charge of the books from the opening of the library, the lady assistants have an intelligent knowledge of its contents, and are eager to aid our patrons in availing themselves of all its facilities.

With the exception of the additional structure, which we trust will not be delayed beyond the opening of the season, there are no extraordinary outlays required for the current year.

We submit, in connection with this report, the usual tables and general estimate of expenses for the coming twelve months, and remain respectfully,

BRADFORD K. PEIRCE,
Superintendent

APPENDIX.

A.

RECEIPTS.	1885.	1884.	1883.
Dec. 31.			
Municipal appropriation . . .	\$7,500 00	\$8,000 00	\$8,500 00
Fines, bulletins, etc.	348 64	336 57	329 32
Cash on hand at last report . .	38	3 65	49 07
	<u>\$7,849 02</u>	<u>\$8,340 22</u>	<u>\$8,878 39</u>

B.

EXPENDITURES.	1885.	1884.	1883.
Dec. 31.			
Salaries	\$3,333 33	\$3,599 61	\$3,611 94
Reading-room	400 46	383 39	345 12
Incidentals	247 13	267 43	300 22
Repairs	41 96	69 90	22 00
Furniture and fixtures	61 75	12 41	53 19
Printing and advertising	129 37	35 25	306 50
Binding	127 55	246 52	252 11
Books	1,490 81	1,673 71	2,013 44
Light and fuel	765 03	709 81	696 15
Distributing agencies and express	1,204 25	1,177 00	1,140 99
Blanks and stationery	32 06	153 56	110 93
Postage account	13 77	11 21	22 14
Total expenditure	<u>\$7,847 47</u>	<u>\$8,339 79</u>	<u>\$8,874 73</u>
Bal. with City Treasurer . \$ 02			
at the Library 1 53			
Total balance	<u>1 55</u>	<u>43</u>	<u>3 66</u>
	<u>\$7,849 02</u>	<u>\$8,340 22</u>	<u>\$8,878 39</u>

C.

CIRCULATION.	1885.	1884.	1883.
Number of days the Library was open	306	307	306
of holidays the Library was closed	7	7	7
of other week-days the Library was closed . . . . .	. .	. .	. .
of volumes delivered for home use	83,938	83,261	83,430
Average daily use	274.3	271.2	272.7
Largest daily use, March 14, 1885,	541	. .	. .
March 1, 1884, . . . . .	. .	544	. .
Mar. 17 & 31, 1883, . . . . .	. .	. .	505
Smallest daily use, Aug. 8, 1885,	71	. .	. .
Nov. 19, 1884, . . . . .	. .	144	. .
Aug. 16, 1883, . . . . .	. .	. .	144
Number of books and not paid for	7	8	10
of books lost and paid for	1	1	4
of books worn out and withdrawn	114	62	46
of notices to delinquents,	424	797	787
of volumes re-covered	10,829	8,945	11,047
of volumes bound	237	335	465
of names registered during the year	3,834	885	850
Total number of names registered to June 8*	13,633	13,146	12,261
Total number of names registered since June 8, *	3,447	. .	. .

* A new registry was commenced June 8.

D.

ACCESSIONS.	1885.	1884.	1883.
Increase by purchase	1,240	1,183	1,073
by gift	220	111	93
by binding pamphlets . . . . .	. . .	9	1
by binding periodicals	116	76	79
Number of missing volumes re- stored since last report . . . . .	. . .	1	. . .
Total accessions for the year	1,576	1,380	1,246
Number of volumes missing or withdrawn since last report	122	71	60
Actual increase	1,454	1,309	1,186
Number of volumes in the Library as last reported	21,855	20,546	19,360
Total number of volumes in the Library	23,309	21,855	20,546
Number of pamphlets bound since last report . . . . .	. . .	49	5
Number of newspapers subscribed for	39	42	42
of newspapers given	4	19	20
of magazines subscribed for	54	33	36
of magazines given	7	4	2
Total number received	94	98	100

E.

CLASSIFICATION, GROWTH, SIZE, AND USE.	Increase during the Year.	Total number of Volumes.	Volumes issued during the Year.	PER CENT. OF CIRCULATION.		
				1885.	1884.	1883.
<i>Literature.</i>						
Prose, fiction and juvenile reading	188	5,220	56,576	67.4	67.25	68.1
Essays, poetry and drama	126	2,808	5,773	6.88	6.95	6.4
Periodicals	151	1,659	1,703	2.03	2.	2.03
Foreign literature	11	474	281	.34	.35	3.
<i>History.</i>						
Geography and travels . .	149	2,132	5,997	7.14	7.33	6.9
Biography	139	2,207	3,209	3.82	3.76	3.7
History	184	2,166	4,009	4.78	4.63	4.4
<i>Arts and Sciences.</i>						
Natural science and industrial arts	179	2,226	4,921	5.86	5.77	5.9
Political and social science	75	1,177	577	.69	.6	.5
Theology	35	1,039	697	.83	1.	.83
Reference library	217	2,201	195	.23	.16	.12
Accessions for the year	1,454	. .	. .	. .	. .	. .
Number of volumes in the Library . . . . .	. .	23,309	. .		. .	. .
Circulation for the year . . . . .	. .	. .	83,938	. .	. .	. .

F.

Received for catalogues sold in 1885	\$13 00
Paid City Treasurer	\$13 00

G.

ESTIMATED EXPENSES FOR THE YEAR ENDING DEC. 31, 1886.

Salaries	\$3,612
Reading-room	350
Incidentals	200
Repairs	50
Furniture and fixtures	50
Printing and advertising	100
“ bulletin	100
Binding	260
Books	2,000
Light and fuel	700
Distributing agencies and express	1,200
Blanks and stationery	70
Postage account	25
Probable amount of fines \$300 00	\$8,717
Cash on hand 1 53	
Required appropriation 8,415 47	
	<hr/>
	\$8,717

LIST OF BOOKS

Issued to some of the Schools of Newton during the last three months
of 1885.

Harper's Magazine. 2 vols.
Smithsonian Institute. Report.

TRAVELS AND DESCRIPTION.

Adventure in Apache Country.
Andes and Amazon. J. Orton.
Arctic Heroes. Z. A. Mudge.
Around and About Old England. C. L. Mateaux.
Astoria. W. Irving.
Australia. J. F. V. Fitzgerald.
Bits of Travel at Home. H. H. Jackson.
Boy Travellers in China and Japan. T. W. Knox.
Boy Travellers in India and Ceylon. T. W. Knox.
Boy Travellers in South America. T. W. Knox.
Boy's Book about Indians. E. B. Tuttle.
Boys in the Mountains, *etc.* W. H. Rideing.
California and Oregon Trail. F. Parkman.
Child Life in Italy. E. Watson.
Children of All Nations.
Constantinople. R. Walsh.
Cook's Voyages. J. Barrow.

- Discovery and Adventure in Africa. Jameson, *and others*.
 Discovery of Yo-Semite. L. H. Bunnell.
 Eastern Archipelago. W. H. D. Adams.
 El Dorado. B. Taylor.
 Exploration of the World. J. Verne.
 Family Flight around Home. E. E. and S. Hale.
 Family Flight in Egypt and Syria. E. E. and S. Hale.
 Family Flight through France, Germany, *etc.* E. E. and S. Hale.
 Farmer's Vacation. G. J. Waring.
 Glimpses of South America. M. Hield.
 Great Canal of Suez. P. Fitzgerald.
 Great Cities of the World. H. Shepard.
 Great Fur Land. H. M. Robinson.
 Homes and Haunts of our Elder Poets.
 Homes of America. M. J. Lamb.
 Homes of American Statesmen.
 How I Found Livingston. H. M. Stanley.
 Illustrated Description of the Russian Empire. R. Sears.
 Indian Pictures. W. Urwick.
 Japan and the Japanese. A. Humbert.
 Land and Sea; the Ocean.
 Land of the Moose, *etc.* A. Daunt.
 Land of Temples, India. M. Hield.
 Little People of Asia. O. T. Miller.
 Madagascar. J. Sibree.
 Men and Things Russian. J. Christie.
 Mountains and Mountain Climbing.
 My Apingi Kingdom. P. B. DuChaillu.
 Normandy Picturesque. H. Blackburn.
 North and South. J. S. C. Abbott.
 Old England. C. Knight.
 One Thousand Miles' Walk in South America. N. H. Bishop.
 Our Boys in China. H. W. French.

- Our Boys in India. H. W. French.
 Our Own Country. [England.] S. Manning and S. B. Green.
 Our Young Folks Abroad. J. D. McCabe.
 Peeps Abroad. C. L. Mateaux.
 Peeps into China. E. C. Phillips.
 Russian Journey. E. D. Proctor.
 Stanford's Compendium; Asia.
 Stanford's Compendium; Central America.
 Suez Canal. F. de Lesseps.
 Three Vassar Girls in Italy. L. W. Champney.
 Through Normandy. K. S. Macquoid.
 Through the Dark Continent. H. M. Stanley.
 Travels in South America. P. Marcoy.
 Travels of Marco Polo. T. W. Knox.
 Trees and Shrubs of Massachusetts. G. B. Emerson.
 Views in India. G. F. White.
 Western Pacific. W. Coote.
 What Darwin Saw in his Voyage round the World.
 Wild North Land. F. W. Butler.
 Winter in Russia. T. Gautier.
 Young Americans in Japan. E. Greey.
 Zigzag Journeys in Classic Lands. H. Butterworth.
 Zigzag Journeys in Europe. H. Butterworth.
 Zigzag Journeys in the Levant. H. Butterworth.
 Zigzag Journeys in the Orient. H. Butterworth.

POETRY AND ESSAYS.

- Ballads for Little Folks. A. and P. Cary.
 Birds and Flowers. M. Howitt.
 Chambers' Miscellany.
 Child's Garden of Verses. R. L. Stevenson.
 Chinese Stories. A. E. Moule.
 Essays on Educational Reformers. R. H. Quick.
 Games and Songs of American Children. W. W. Newell.
 Grammar Land. M. L. Nesbitt.
 Handy Dictionary of Synonyms. H. C. Faulkner.
 How to Educate Yourself. G. C. Eggleston.
 Little Maid and her Moods. E. S. Phelps.
 Mother Play. F. Froebel.
 New England Tragedies. H. W. Longfellow.
 Our Children's Songs.
 Poems. W. C. Bryant.
 Poems. R. Burns.
 Poems. H. W. Longfellow.
 Poems. J. G. Whittier.
 Underbrush. J. T. Fields.
 What Shall we do To-night? W. B. Dick.

FICTION.

- About Old Story Tellers. D. G. Mitchell.
 Adventures in Vermont. J. Abbott.
 All Aboard for Sunrise Land. E. A. Rand.
 Aunt Martha's Corner Cupboard. M. and E. Kirby.
 Autobiography of a Lump of Coal. A. Carey.
 Bear Worshippers. E. Greey.
 Bodleys Afoot. H. E. Scudder.

- Country of the Dwarfs. P. B. DuChaillu.
 Delightful Days.
 Each and All. J. Andrews.
 English Bodley Family. H. E. Scudder.
 Farmer Boy. [G. Washington.] W. M. Thayer.
 Guernsey Lily. S. C. Woolsey.
 Hans. Brinker. M. E. Dodge.
 Harper's Story Book; Franklin. J. Abbott.
 Heidi. J. Spyri.
 Hudson's Bay. R. M. Ballantyne.
 Hunter Cats of Connorloa. H. H. Jackson.
 Jack and Jill. L. M. Alcott.
 John Chinaman. W. G. Dalton.
 Jolly Good Times at School. M. P. W. Smith.
 Life of a Bear.
 Life of an Elephant.
 Little Folks' Reader.
 Little Lucy's Wonderful Globe. C. M. Yonge.
 Little Women. L. M. Alcott.
 Mamma's Stories; Domestic Pets. Mrs. G. Cupples.
 Mary Bell. J. Abbott.
 Mercedes of Castile. J. F. Cooper.
 Merry Times for Boys and Girls.
 Our Little Ones and the Nursery.
 Our Little Men and Women.
 Pioneer Boy. [A. Lincoln.] W. M. Thayer.
 Pioneers. J. F. Cooper.
 Plucky Boys. D. M. M. Craik.
 Prairie. J. F. Cooper.
 Rollo on the Rhine. J. Abbott.
 Rollo in London. J. Abbott.
 Seven Historic Ages. A. Gilman.
 Seven Little People and their Friends. H. E. Scudder.

- Seven Little Sisters. J. Andrews.
 Singular Creatures. Mrs. G. Cupples.
 Stories about Cats. Mrs. Surr.
 Stories of Animal Sagacity. W. H. G. Kingston.
 Story Book for Children. A. M. Diaz.
 Story of Our Country. Mrs. L. B. Monroe.
 Swan and her Crew. G. C. Davies.
 Talks with Uncle Richard; Wild Animals. Mrs. G. Cupples.
 Ten Boys from Long Ago to Now. J. Andrews.
 True Stories in History and Biography. N. Hawthorne.
 Uncle Tom's Cabin. H. B. Stowe.
 Up Hill and Down Dale. L. D. Nichols.
 Vignettes of American History. M. Howitt.
 What They Did. E. C. Geikie.
 William Henry Letters. A. M. Diaz.
 Wonder Book. N. Hawthorne.
 Work. L. M. Alcott.
 Young Folks' Ideas. Uncle Lawrence.
 Young Folks' Queries. Uncle Lawrence.

HISTORY.

- America not discovered by Columbus. R. B. Anderson.
 American Histories. 4 vols. J. Abbott.
 American History for Schools. G. P. Quackenbos.
 Book of the Indians. S. G. Drake.
 Boys of '76. C. C. Coffin.
 Boys of '61. C. C. Coffin.
 Children's Stories in American History. H. C. Wright.
 Discoveries of America to 1525. A. J. Weise.
 Discovery of the Great West. F. Parkman.
 Ferdinand and Isabella. W. H. Prescott.
 France and England in North America. F. Parkman.

- Historic Fields and Mansions of Middlesex. S. A. Drake.
 Historic Mansions of Philadelphia. T. Westcott.
 Historic Personages and Old Landmarks of Boston. S. A. Drake.
 History of American People. A. Gilman.
 History of French War. R. Johnson.
 History of the United States. Bryant and Gay.
 History of United States. B. J. Lossing.
 History of United States. H. E. Scudder.
 Indian History for Young Folks. F. J. Drake.
 Jesuits in North America. F. Parkman.
 King Philip. J. Abbott.
 King Philip's War. W. J. Ashley.
 Larger History of United States. T. W. Higginson.
 Life of Cortes. J. Abbott.
 Nonantum and Natick. S. S. Jacobs.
 Old Times in the Colonies. C. C. Coffin.
 Our Country. B. J. Lossing.
 Our First Century. R. M. Devens.
 Peter the Great. J. Abbott.
 Pilgrim Fathers. W. H. Bartlett.
 Plymouth and the Pilgrims. J. Banvard.
 Remarkable Events in Hist. of Old World and New. J. Frost.
 Romance of American History. J. Banvard.
 Russia. J. S. C. Abbott.
 Salem Witchcraft. C. W. Upham.
 Story of Liberty. C. C. Coffin.
 Story of Rome. A. Gilman.
 Tea Leaves of 1775. F. S. Drake.
 War of Revolution. B. J. Lossing.
 Young Folks' Civil War. E. D. Townsend.
 Young Folks' History of Boston. H. Butterworth.
 Young Folks' History of London. W. H. Rideing.
 Young Folks' History of Mexico. F. A. Ober.
 Young Folks' History of Russia. N. H. Dole.

POLITICAL SCIENCE.

- American Eloquence. F. Moore.
 American Orations. A. Johnston.
 Our Business Boys. F. E. Clark.
 Politics for Young America. C. Nordhoff.

BIOGRAPHY.

- Abraham Lincoln. E. Foster.
 American Explorers. T. W. Higginson.
 Biography of Self-Taught Men. B. B. Edwards.
 Biographical Sketches. G. W. Greene.
 Brief Biographies. S. Smiles.
 Columbus. J. S. C. Abbott.
 Columbus. A. Helps.
 Columbus. W. Irving.
 Eminent Americans. B. J. Lossing.
 Essays, Biographical and Critical. H. T. Tuckerman.
 Famous Americans of Recent Times. J. Parton.
 Female Sovereigns; Zenobia. A. Jameson.
 Franklin. E. M. Tomkinson.
 German Teachers and Educators. E. Barnard, *ed.*
 Heroes of American Discovery. N. R. E. Bell.
 Historic Boys. E. S. Brooks.
 Irving. D. J. Hill.
 James Madison. S. H. Gay.
 John Eliot. R. B. Caverley.
 John Paul Jones. J. S. C. Abbott.
 Life of Cortes. A. Helps.
 Lives of American Mechanics. H. Howe.
 Lives of the Presidents. J. S. C. Abbott.

Magellan. G. M. Towle.
 Men of Invention and Industry. S. Smiles.
 Montezuma. Eggleston and Seelye.
 My Bondage and My Freedom. F. Douglas.
 Pizarro. G. M. Towle.
 Pocahontas. E. Eggleston.
 Poets' Homes. R. H. Stoddard.
 Raleigh. G. M. Towle.
 Raleigh. C. K. True.
 Shore and Sea. W. H. D. Adams.
 Thomas Edward. S. Smiles.
 William C. Bryant. G. W. Curtis.
 Works of Capt. John Smith.

NATURAL SCIENCE AND INDUSTRIAL ARTS.

American Boy's Handy Book. D. C. Beard.
 Ancient America. J. D. Baldwin.
 Ancient and Modern Coins. J. R. Snowden.
 Art Needlework. L. P. Hale.
 Astronomy; Physical Geog. J. N. Lockyer and A. Geikie.
 Bayeux Tapestry. J. E. Bruce.
 Birds, Beasts and Fishes. Mrs. S. Barker.
 Book of Cyphers. F. Knight.
 Book of Needlework. S. O. Beeton.
 Borderland of Science. R. A. Proctor.
 Bottom of the Sea. L. Sonrel.
 Butterfly Hunters. H. S. Conant.
 Cabinet of Curiosities.
 Cassell's Book of Birds. T. R. Jones.
 Catechism of Common Things. J. D. Champlin.
 Country Cousins. E. Ingersoll.
 Earth and its Wonders. C. Adams.

- Fairy Land of Science. A. B. Buckley.
 Footprints of Vanished Races. A. J. Conant.
 Force. J. Abbott.
 Forms of Water. J. Tyndall.
 Four Feet, Two Feet and No Feet. L. E. Richards.
 Friends worth Knowing. E. Ingersoll.
 Geological Story briefly Told. J. D. Dana.
 Grave Mounds and their Contents. L. Jewett.
 Half-Hours with Insects. A. S. Packard, *Jr.*
 History of Lace. F. B. Palliser.
 Homes without Hands. J. G. Wood.
 How to Get Strong. W. M. Blaikie.
 Insect Architecture. J. Rennie.
 Insect Lives. J. P. Ballard.
 Insect World. L. Figuier.
 Insects Abroad. J. G. Wood.
 Insects at Home. J. G. Wood.
 Ladies' Fancy Book. Mrs. Jones, *and others*.
 Lady's Book of Knitting and Crochet.
 Lessons in Electricity. J. Tyndall.
 Lighthouses and Lightships. W. H. D. Adams.
 Little Folks in Feathers and Fur. O. T. Miller.
 Mastodon, Mammoth and Man. J. P. MacLean.
 Monsters of the Deep. W. H. D. Adams.
 Mound Builders. J. P. MacLean.
 Natural History Series for Children. Calkins, *and others*.
 Odd Folks at Home. C. L. Mateaux.
 Overhead. L. D. Nichols.
 Petland Revisited. J. G. Wood.
 Physical Geography of the Sea. M. F. Maury.
 Population of an Old Pear Tree. E. Van Bruyssel.
 Reason Why.
 Sea and its Wonders. M. and E. Kirby.

- Science Ladders. N. R. E. Bell.
 Short Studies from Nature.
 Speaking Telephone. G. B. Prescott.
 Stories about Animals. T. Jackson.
 Structure of Cotton Fibre. E. H. Bowman.
 Sublime in Nature. F. de Lanoy.
 Tenants of an Old Farm. H. C. McCook.
 Town Geology. C. Kingsley.
 Underfoot. L. D. Nichols.
 Use of Animals in Relation to Man. E. Lankester.
 Water and Land. J. Abbott.
 Wonderful Balloon Ascents. F. Marion.
 Wonders of Electricity. J. Baile.
 Wonders of Water. G. Tisandier.
 Woodlands. M. C. Cooke.
 World by the Fireside. M. Kirby.
 World of Wonders.
 World's Foundations. A. Giberne.

CITY OF NEWTON.

ANNUAL REPORT

OF THE

CHIEF OF FIRE DEPARTMENT

OF THE

CITY OF NEWTON,

FOR THE

YEAR ENDING DEC. 31, 1885.

WITH A STATEMENT OF THE FIRES AND ALARMS; ALSO, LOSSES
AND INSURANCE DURING THE YEAR.



Newton :

PRESS OF THE NEWTON JOURNAL.

1886.

CITY OF NEWTON.

IN THE BOARD OF MAYOR AND ALDERMEN, Jan. 18, 1886.
Accepted and sent down.

I. F. KINGSBURY, *Clerk*.

IN COMMON COUNCIL, Jan. 25, 1886.
Accepted in concurrence.

ALBERT S. GLOVER, *Clerk*.

REPORT OF THE CHIEF OF FIRE DEPARTMENT.

FIRE DEPARTMENT HEADQUARTERS,
OFFICE CHIEF OF DEPARTMENT,
CITY HALL, Dec. 31, 1885.

*To the Honorable the Mayor and City Council of the City of
Newton:*

GENTLEMEN,—I have the honor herewith to submit to you the Annual Report of the Fire Department for the year ending December 31, 1885, the same being my Seventh, and the Eleventh of the present system.

The fire loss, as compared with previous years, leaves no opportunity for criticism. The risks have very largely increased, but greater care and precaution seem to have been exercised by all classes. Builders, owners and occupants, evidently realizing that prevention is the great point to attain in reducing the loss by fire. For losses, insurance, &c., see statistics.

During the year the department has answered to the following calls:

First alarm,	41
Second alarm,	3
Telephone calls,	12
Still alarms,	11
Special calls out of city,	7
Total,	<hr/> 74

In responding to these calls the apparatus and members have rendered the following service :

Ladders used,	614 feet.
Hose used,	20,800 "
Miles travelled,	435
Duration of service,	204 hours.

For report of service for each company, see Appendix.

The above alarms were given as follows :

Citizens,	49
Firemen,	21
Police,	4
	<hr/>
Total,	74

In addition to the above, ten fires were extinguished by police and citizens without alarm.

The discipline has been most excellent. With one exception no serious casualties have occurred.

Engineer Colby, of No. 3 Engine, was injured while answering call from Station 13, and a few days later was again injured while answering Station 82, and relieved from duty for twenty-four days.

The permanent force of the department is made up of the following officers and employees :

Chief of Department and Supt. Fire Alarm,	1
Assistant Chief and Fire Alarm operator,	1
Engineers in charge of engines,	3
Drivers,	5
	<hr/>
Total,	10

The Call Force as follows :

Foremen,	8
Assistant foremen,	8
Firemen,	3
Truckmen,	10
Hosemen,	33
Total,	<u>62</u>

During the year the positions of Assistant Chief and Fire Alarm operator were consolidated, by vote of the City Council, and the ordinance governing the same was amended in accordance therewith.

I am pleased to report that the change has added very materially to the efficiency of the positions, as well as effecting a reduction of \$350 per year in the salary list.

The apparatus in active service is as follows :

Steam fire engines,	3
Hose reels,	7
Truck,	1
Coal tenders,	3
Total,	<u>14</u>

IN RESERVE.

Hose reel,	1
Sleighs,	6

In addition to the above and in charge of Chief of Department:

Buggy and sleigh (one each),	2
In charge of Assistant Chief:	
Buggy and sleigh (one each),	2
Wagon,	1

The value of the property used by this department is estimated as follows :

Buildings and Land, . . .	\$86,000
Apparatus and Furniture, . .	26,000
Fire Alarm Telegraph, . . .	23,000
Total,	<u>\$135,000</u>

The apparatus has been maintained in good working order throughout the year.

The City Council and Joint Standing Committee on Fire Department have authorized the following purchases and repairs :

For No. 1 Truck—One pair wheels, and axle for the same.

For No. 1 Engine—Repair of reel (necessitated by accident), repair and painting of coal tender.

For No. 3 Engine—Repair and painting of reel, coal tender and sleigh.

No. 5 Sleigh—Repaired and painted.

For Chief of Department—Repair and painting of buggy and new sleigh provided.

For Assistant Chief—Purchase of new buggy and repair of sleigh.

New service hats were provided for five of the companies, and Companies 1, 3 and 4 will require them the coming year.

“Mayer” Relief Valves were placed on Engines 1, 2 and 3, and have given perfect satisfaction.

The general condition of the seventeen horses owned by this department is excellent.

It was considered advisable by the Joint Standing Committee on Fire Department to contract for the regular attendance of a veterinary, who should be required to make a stated

visit each week to the several stables, and also attend all special calls.

The marked success which has attended this arrangement for the past six months is of such a character that I would recommend its continuance. For a review of the services rendered I would respectfully refer you to the report of the Veterinary. See annexed.

The present condition of the hose, particularly the leather, is such that 1500 feet of new hose should be provided at an early date. The cotton hose, which was purchased in 1877, has given out in the lining, and is practically useless in its present condition. But as parties are ready to reline and guarantee this hose for a nominal sum, I would recommend its immediate repair.

For the future, I would recommend small purchases of new hose each year until the necessary complement is sufficient to meet the requirements.

For condition, amount and where distributed, see Appendix.

No. 1 Station—Has been renovated and painted throughout. New boiler and piping, for heating purposes, have replaced the old, and in all respects this station is in excellent repair.

No. 2 Station—Requires repairs, or new floor in engine room, the replacing of defective plumbing, and necessary repairs to coving and gutters.

The drainage at this station is in such condition as to demand immediate attention.

No. 3 Station—Repairs, or new floor in engine room are required. Other than this the condition of the station is excellent.

No. 1 Truck Station—Defective plumbing should be replaced, front doors altered, heating apparatus renewed.

No. 5 Station—Requires alteration of front doors.

No. 6 Station—Is in good repair.

No. 7 Station—The stable at this station should be enlarged. The drainage requires immediate attention.

Thirteen additional hydrants have been added to the service. I would recommend hydrants in the following locations:

Chestnut, 800 feet north of Boylston street.

Bowdoin and Lincoln streets.

Lake and Hyde avenues.

Erie avenue and Woodward street.

High and Summer streets.

Beacon, between Crescent avenue and Centre streets.

Grove, between Hancock and Woodland avenue.

Hunter and Putnam streets.

Alpine, 800 feet west Mount Vernon street.

Elm, between Webster and River streets.

Cherry and Henshaw streets.

Adams, between Washington and Middle streets.

Washington street, opposite entrance Cottage Hospital.

The service rendered by this department is incalculable.

The hydrants and connections have received the constant supervision of the Superintendent, and have always been in readiness for immediate use by this department.

The largest and most important risks in this city, and to which constant additions are being made each year, are those of private dwellings, the majority of which are large and expensive, and in the main located upon the high lands, not easily accessible to our heavy apparatus, and in a measure deprived of high service.

These buildings and their contents are more liable to serious damage, in case even of trifling fires, than ordinary risks.

For the better protection of this property, as well as for general service throughout the city, I would recommend that one of our present steam fire engines be placed in reserve, and a chemical engine substituted, for the following reasons:

The advantages of a chemical engine over ordinary apparatus are manifold. In case of fire, they can be sent out with greater celerity, are always ready for instantaneous service, using the lightest of hose, which can readily be taken by one man to any part of the building. The weight of the apparatus, being limited, enables its being taken to points not accessible to the heavy apparatus, and using materials for its extinguishing force as three to one when compared with water alone.

The average record of extinguished fires by these engines is from 60 to 75 per cent. in the towns and cities using them.

The reputation of these engines has become firmly established in the many places using them, and they are in no sense an experiment, but an established fact.

Their introduction in this department will necessitate no increase in the running expenses, as the same horses and men will be available for the chemical engine.

I would again renew the recommendation of previous years for the placing of permanent drivers on the reels.

The appropriation for the maintenance of this department for the year ending December 31, 1885, as authorized by the City Council, was \$22,900.

The expenditures were \$24,601.87 as follows:

Salaries,	\$15,000.00
Hay, grain and shoeing	3,052.00
Coal and wood	1,000.00
Repairs of apparatus.	1,074.75
Maintenance of fire alarm.	1,395.73

Gas	352.65
Water rates	201.00
Laundry	366.95
Incidentals as per book of Auditor	2,158.79

In conclusion I desire to express to His Honor the Mayor, my personal acknowledgements for the interest manifested in the welfare of this department, and for the very pleasant relations which has characterized our intercourse during the year.

To the Chairman, and members of the Joint Standing Committee on Fire Department, for their cheerful and prompt attention to the requirements of the department.

To Assistant Chief, Walter B. Randlett, and the officers and members of the several companies, I am personally indebted, for the success which has attended our efforts in maintaining the excellent record of this department.

To the several Heads of Departments and their subordinates, I am under obligations for courtesies tendered.

Respectfully submitted,

HENRY L. BIXBY,

Chief of Department.

FIRE ALARM TELEGRAPH.

The Fire Alarm has been maintained in most excellent condition, and has rendered effective service throughout the year.

Forty-one, first alarms; three, second alarms; six, special calls; seven hundred and forty-six, test blows and school signals, have been correctly sent out.

By order of the City Council, a tower striker, was placed at junction of Hartford and Lincoln streets, and a new signal station (212) at Parsons and Watertown streets.

One private signal station (512) was placed in the Paper Mills of C. F. Crehore and Son, Washington and Hamilton streets.

Six new galvanometers, and four tap bells were placed in circuit at Fire Alarm office, and one registering instrument at headquarters, City Hall.

I would recommend that additional signal stations be located as follows :

Gardner and Pearl streets	Ward One
California and Faxon streets	Ward One
Middle and Adams streets	Ward Two
Washington and Crafts streets. . . .	Ward Two
Walnut and Washington Park. . . .	Ward Two
River and Cherry streets. . . .	Ward Three
Webster St. and Webster Place	Ward Three
Washington street, opp. Hospital	Ward Four
Station and Centre streets	Ward Six
Homer and Cedar streets	Ward Six

A very large amount of outside work has been accomplished during the year in the way of repairs; an equal amount will be necessary the coming year.

The following is a summary of the work performed :

New poles set	67
Old poles set	20
Old poles removed	74
Location changed	29
Wire stretched, New, No. 9	2 1-2 miles
Old wire stretched, No. 9.	1-2 mile
Hard drawn copper, No 12	4 1-2 miles
Old wire taken down, Nos. 9 and 12.	6 miles
Signal stations painted	50

For further statistics of this department, see appendix.

The "Private line" telephone service has been fairly successful. So long as the present large number of instruments are continued upon one circuit, no better service can be guaranteed, and its present condition seriously interferes with its effectiveness for Fire Department use.

I would therefore recommend that the Water Department be placed upon a separate line; the same can be done at a small outlay.

The following departments are furnished with instruments.

Fire Department	20
Police Department	12
Water Department	10
Office City Clerk (City Hall)	2
Total	44

Walter B. Randlett,
Operator.

Henry L. Bixby,
Supt. Fire Alarm.

REPORT OF DEPARTMENT VETERINARY.

Newton, Dec. 31, 1885.

To Henry L. Bixby,
Chief of Fire Dept.

In making my report to you, as the result of my supervision of the horses of your department for the six months ending as above, I would call your attention to the hygienic and general condition of the stables, as well as to the health of the animals.

The horses of the department are in the main, good ones, with one or two exceptions. There has been very little sickness during the past six months, in fact no more than could be reasonably expected from the condition in which the animals are kept; viz., in stables, and on grain feed,

conditions which cannot be changed, without detriment to the efficiency of the department.

It seems advisable to me, to recommend a change at No. one station, in the horses. The Reel horse is old, has been long in the service, and has become very much broken winded, so that when called upon for service is not able to perform in a proper manner, the work he is called upon to do without being subjected to distress for breath. The Engine horses, are good, strong horses, but it would seem as if a pair could be procured that would do the work better and quicker. How this may be done is a matter which is perhaps better left for the decision of the Committee.

The remainder of the horses at the several stations seem well adapted, and in good condition to do their work. If I were to suggest any other change, it would be, that another horse be provided for the Chief of Department, not that the old horse is worn out, but the increase in duty, to which is added the Inspection of Buildings, the amount of ground daily gone over is large, added to this, is the liability of a run from one extreme of the city, to the other, in all weathers, and conditions of street, which at times, tax the horse severely.

The sanitary condition of the stables, is good, with the exception of that at No. 7 Hose. This stable is not fit for its use, being damp, cold, and anything but healthy. Under this stable is a dark cellar, into which the water from the stalls, from the watering trough, from the soil pipes and more or less drainage water enter, forming a nice source of moisture and foul air, to permeate the stable and food of the animals kept therein. I would suggest that this matter receive early attention.

I have made, during the six months just ending, twenty-six (26) weekly, and thirty one (31) extra visits.

The cases which have come up for treatment, have been as follows:

Colic	2
Lymphangitis	2
Corns	2
Bruise sole	2
Irritation from rope	2
Diarrhœa	1
Quarter cracks	1
Boil	1
Shoeing	1

Respectfully submitted,

MADISON D. BUNKER,

Department Veterinary.

BUILDING DEPARTMENT.

During the year, one hundred and forty (140) new buildings were erected, and twelve (12) buildings were enlarged or remodelled.

Of the above buildings one hundred and fifty (150) were constructed of wood, and one each, of brick and stone.

These buildings are to be occupied as follows:

Dwellings	116
Stables	21
Greenhouses	6
Stores	4
Churches	2
Factory	1
Storehouse	1
Hospital	1

These buildings are located as follows:

Ward One	13
Ward Two	36
Ward Three	31
Ward Four	19
Ward Five	20
Ward Six	21
Ward Seven	12

The approximate value of the above property is estimated at five hundred and fifty-four thousand (554,000) dollars.

Respectfully submitted,

HENRY L. BIXBY,

Inspector.

APPENDIX.

Joint Standing Committee on Fire Department.

Aldermen.—ENOS C. SOULE. (Chairman,) GEORGE PETTEE.

Councilmen.—WINTHROP B. ATHERTON, FRANK EDMANDS, ANDREW J. FISKE.

List of Officers.

NAME.	RANK.	HEADQUARTERS.	RESIDENCE.
Henry L. Bixby . . .	Chief of Department	City Hall	Margin Street.
Walter B. Randlett .	Assistant Chief . . .	No. 3 Engine Station	Centre Street.

Employees and Members.

No. 1 ENGINE.

STATION.—WASHINGTON, OPP. NONANTUM STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
F. D. Graves	15	Foreman at call,	Printer	Carleton Street.
C. W. H. Boulton . . .	16	Assistant, “	Carpenter . . .	Pearl Street.
R. J. Morrisey	16	Hoseman, “	Carpenter . . .	Centre Street.
John McCammon	7	Hoseman, “	Merchant	Centre Street.
E. W. Lyons	14	Hoseman, “	Plumber	Washington Street.
J. F. Horrigan	6	Hoseman, “	Blacksmith . . .	Washington Street.
Walter Pingree	11	Hoseman, “	Carpenter . . .	Engine Station.
H. C. Lindley	4	Fireman, “	Painter	Engine Station.
EMPLOYEES.				
F. E. Judkins	2	Engineer.	Permanent . . .	At Station.
John Deery	12	Driver	Permanent . . .	At Station.

DATE.
Oct. 1, 1885.
Nov. 1, 1885.
Dec. 28, 1885.

APPOINTMENTS.
Walter Pingree.
John McCammon.
John Deery.

POSITION.
Hoseman.
Hoseman.
Driver.

HONORABLE DISCHARGE.

Oct. 1, 1885. Frank Liddell.
 Nov. 1, 1885. E. P. Leavitt.

RESIGNED.

Nov. 30, 1885. O. A. Chick.
 Dec. 28, 1885. F. H. Harrington.

No. 2. ENGINE.

STATION.—WASHINGTON STREET, OPP. LINCOLN PARK.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
G. H. Haynes	21	Foreman, at call,	Carpenter . .	Webster Park.
F. H. Humphrey . . .	23	Assistant, "	Merchant . . .	Webster Street.
W. F. Rand	28	Hoseman, "	Wheelwright.	Webster Street.
J. Q. A. Hawkes . . .	26	Hoseman, "	Painter	Webster Street.
R. J. Riley	29	Hoseman, "	Carpenter . . .	At Station.
W. H. Nichols	24	Hoseman, "	Carpenter . . .	Waltham Street.
C. M. Kebbe	22	Hoseman, "	Carpenter . . .	Chestnut Street.
Joseph Commings . .	20	Hoseman, "	Janitor. . . .	Washington Street.
G. K. Stacy	19	Fireman, "	Carpenter . . .	At Station.
EMPLOYEES.				
R. S. Cummings . . .	17	Engineer	Permanent . .	At Station.
C. L. Berry	18	Driver	Permanent . .	At Station.

DATE.	APPOINTMENTS.	POSITION.
Aug. 1, 1885.	C. M. Kebbe.	Hoseman.
Nov. 15, 1885.	Jos. Commings.	Hoseman.

HONORABLE DISCHARGE.

Oct. 1, 1885. F. T. Burgess.
 Nov. 1, 1885. J. W. Crosby.

RESIGNED.

July 1, 1885. C. J. Crowley.

No. 3 ENGINE.
STATION.—WILLOW STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
A. I. English	35	Foreman, at call,	Carpenter . .	Station Street.
S. P. Chadbourne . .	41	Assistant, “	Carpenter . .	Willow Street.
C. B. Geary	42	Hoseman, “	Carpenter . .	Lyman Street.
D. McDonald	33	Hoseman, “	Carpenter . .	Centre Street.
C. J. Polly	44	Hoseman, “	Carpenter . .	Station Street.
C. E. Thompson . . .	36	Hoseman, “	Carpenter . .	At Station.
A. N. Mosher	37	Hoseman, “	Carpenter . .	At Station.
John McMahon . . .	46	Hoseman, “	Blacksmith . .	Station Street.
EMPLOYEES.				
A. D. Colby	32	Engineer	Permanent . .	At Station.
A. C. Jewett	43	Driver	Permanent . .	At Station.

DATE.	APPOINTMENTS.	POSITION.
Jan'y 1, 1885.	A. N. Mosher.	Hoseman.
Nov. 15, 1885.	John McMahon.	Hoseman.

HONORABLE DISCHARGE.

Nov. 15, 1885.	W. A. Thompson.
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No. 1 TRUCK.
STATION.—WASHINGTON, OPP. WALKER STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
W. S. Higgins	62	Foreman, at call,	Carpenter . .	Brooks Avenue.
F. B. Sisson	60	Assistant, “	Carpenter . .	Washington Street.
J. H. Williams	66	Truckman, “	Painter	Washington Street.
O. Dow	87	Truckman, “	Plumber	Murray Street.
T. C. Nickerson . . .	68	Truckman, “	Carpenter . . .	Lowell Street.
H. J. Williams	63	Truckman, “	Painter	At Station.
U. H. Dyer	65	Truckman, “	Merchant	Lowell Street.
J. Beal	64	Truckman, “	Merchant	Washington Street.
J. Watt	69	Truckman, “	Carpenter . . .	Murray Street.
C. Coleman	61	Truckman, “	Carpenter . . .	Allston Street.
M. McLeod	71	Truckman, “	Carpenter . . .	Allston Street.
EMPLOYEE.				
C. Murphy	59	Driver	Permanent . .	At Station.

No. 4 HOSE.

STATION.—WASHINGTON, OPP. WALKER STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
E. C. Waterhouse . .	52	Foreman, at call,	Carpenter . .	Walnut Street.
A. J. Wandless . . .	47	Assistant, “	Carpenter . .	Allston Street.
D. Archibald	50	Hoseman, “	Shoemaker . .	At Station.
F. A. Dexter	51	Hoseman, “	Clerk	At Station.
F. Lancaster	49	Hoseman, “	Carpenter . .	Allston Street.
EMPLOYEE.				
J. E. Watson	48	Driver	Permanent . .	At Station.

DATE.	APPOINTMENT.	POSITION.
April 15, 1885.	F. Lancaster.	Hoseman.

HONORABLE DISCHARGE.

April 15, 1885.	John Deery.
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No. 5 HOSE.

STATION.—AUBURN, BET. MELROSE AND WOODBINE STS.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
J. F. Washburn . . .	55	Foreman, at call,	Painter	At Station.
J. U. Kimball	58	Assistant, “	Carpenter . .	At Station.
J. M. Taylor	54	Hoseman, “	R.R. Employee	At Station.
C. G. Fletcher	56	Hoseman, “	Painter	Central Street.

DATE.	APPOINTMENT.	POSITION.
Jan'y 1, 1885.	C. G. Fletcher.	Hoseman.

DATE.	PROMOTIONS.	POSITIONS.
July 1, 1885.	J. F. Washburn.	Foreman.
July 1, 1885.	J. U. Kimball.	Asst. Foreman.

HONORABLE DISCHARGE.

July 1, 1885.	W. F. Soule.
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No. 6 HOSE.

STATION.—WASHINGTON AND HAMILTON STREETS.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
Bernard Early	75	Foreman, at call,	Paper Maker.	Washington Street.
H. H. Miles	77	Assistant, "	Carpenter . .	Grove Street.
D. J. Corcoran	76	Hoseman, "	Carder	At Station.
P. O'Neil	79	Hoseman, "	Fireman . . .	Grove Street.
D. J. Cooney	78	Hoseman, "	Carder	At Station.
T. E. Healey	74	Hoseman, "	Painter	Washington Street.

No. 7 HOSE.

STATION.—PETTEE STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
W. S. Cargill	82	Foreman, at call,	Carpenter . .	High Street.
H. A. Smith	84	Assistant, "	Carpenter . .	Rockland Place.
J. E. Trowbridge . . .	81	Hoseman, "	Merchant . . .	High Street.
J. T. Thomason	80	Hoseman, "	Merchant . . .	Chestnut Street.
C. E. Rand	86	Hoseman, "	Machinist . .	At Station.
G. H. Osborn	83	Hoseman, "	Moulder . . .	Summer Street.

STATEMENT OF HOSE AND WHERE DISTRIBUTED.

COMPANY.	LEATHER.	COTTON.	CONDEMNED.
Engine One . . . . .	. . .	1,500 ft.	. . .
Two . . . . .	. . .	1,550 ft.	. . .
Three . . . . .	. . .	1,500 ft.	. . .
Hose Four . . . . .	. . .	1,400 ft.	. . .
Five	1,100	. . .	. . .
Six	1,200	. . .	. . .
Seven	700	. . .	. . .
			1,650
Total	3,000	5,950 ft.	1,650

STATEMENT OF DUTY PERFORMED BY EACH COMPANY.

COMPANY.	LADDERS.	HOSE.	MILES.	DURATION SERVICE.
Engine One . . . . .	. . .	5,550 ft.	40	24 hours.
Two . . . . .	. . .	4,050 ft.	50	23 hours.
Three . . . . .	. . .	5,000 ft.	46	32 hours.
Hose Four . . . . .	. . .	4,350 ft.	64	35 hours.
Five . . . . .	. . .	550 ft.	24	10 hours.
Six . . . . .	. . .	400 ft.	34	14 hours.
Seven . . . . .	. . .	1,900 ft.	61	25 hours.
Truck One	614 ft.	. . .	116	41 hours.
Total	614	20,800	435	204

Fire Alarm Department.

CITY BUILDING, WILLOW STREET.

WALTER B. RANDLETT, Operator.

Location of Tower Bells.

BUILDING.	STREET.	WEIGHT.
Congregational Church . . .	Centre Street	3,600 lbs.
Methodist Church	Walnut Street	1,200 "
City Hall	Washington Street	2,650 "
Congregational Church . . .	Hancock Street	3,250 "
Crehore Paper Mills	Washington Street	8-inch whistle.
Methodist Church	Summer Street	1,500 lbs.
Congregational Church . . .	Hartford and Lincoln Streets.	1,500 "
Mason School	Centre Street	2,000 "

Location and Size of Gongs.

No. 1 Engine Station	. . . . .	15-inch.
No. 2 " "	. . . . .	15 "
No. 3 " "	. . . . .	15 "
No. 1 Truck	"	16 "
No. 4 Hose	"	16 "
No. 5 " "	. . . . .	8 "
No. 6 " "	. . . . .	15 "
No. 7 " "	. . . . .	16 "
Residence of Chief of Department	. . . . .	8 "
Residence of Assistant Chief	. . . . .	8 "
Residence of Otis Pettee (private)	. . . . .	8 "
Works of M. G. Crane (private)	. . . . .	16 "
Pumping Station	. . . . .	8 "

Signal Stations.

STATIONS.

12. Park and Church Streets (Newton).
13. Sargent and Centre Streets, (Newton).
14. Washington and Jewett Streets (Newton).
15. No. 1 Engine Station (Newton).
16. Church and Centre Streets (Newton).
17. School and Pearl Streets (Newton).
18. Newtonville Avenue and Howard Street (Newton).
112. Washington Street and Hunnewell Park (Newton).
113. Tremont and Belmont Streets (Newton).
21. No. 1 Truck Station (Newtonville).
23. Washington and Walnut Streets (Newtonville).
24. Chapel and Watertown Streets (Nonantum).
25. Lowell and Watertown Streets (Newtonville).
26. Walnut Street, opp. High School (Newtonville).
27. Highland Avenue and Allston Street (Newtonville).
28. Walnut and California Streets (Newtonville).
212. Watertown and Parsons Street (Newtonville).
31. Waltham and Washington Streets (West Newton).
32. River and Pine Streets (West Newton).
34. Waltham and Derby Streets (West Newton).
35. No. 2 Engine Station (West Newton).
36. Fuller and Washington Streets (West Newton).
37. Hillside Avenue and Otis Street (West Newton).
312. Police Headquarters, City Hall (West Newton).

4. Auburn and Lexington Streets (Auburndale).
41. Auburn and Charles Streets (Riverside).
42. Woodland Avenue and Grove Street (Auburndale).
43. Ash and Islington Streets (Auburndale).
45. Auburn and Greenough Streets (Auburndale).
421. Hancock and Fern Streets (Auburndale).
5. No. 6 Hose Station (Lower Falls).
51. Washington and Concord Streets (Lower Falls).
52. City Farm.
53. Grove Street and Pine Grove Avenue (Lower Falls).
512. C. F. Crehore & Son, Paper Mills (private. Newton Lower Falls)
6. No. 7 Hose Station (Upper Falls).
61. Chestnut and Winter Streets (Upper Falls).
62. Chestnut and Oak Streets (Upper Falls).
63. Mechanic and Elliott Streets (Upper Falls).
64. Walnut Street, rear B. & A. Railway Station (Highlands).
65. Cook and Boylston Streets (Highlands).
612. Office Pettee Machine Co. (private. Upper Falls).
7. Station Street and Glen Avenue (Newton Centre).
71. Walnut Street and Cemetery Gate.
72. M. G. Crane's Factory (private. Highlands).
73. No. 3 Engine Station (Newton Centre).
74. Beacon Street and Laurel Avenue (Newton Centre).
75. Cypress and Paul Streets (Newton Centre).
8. Beacon and Hammond Streets (Chestnut Hill).
81. Ward Street and Waverly Avenue (Newton Centre).
82. Kenrick Street and Waverly Avenue (Newton).
9. Brookline and Dedham Streets (Oak Hill).
91. Clark and Parker Streets (Oak Hill).

Special Calls.

1-2-1—followed by Station number, No. 1 Engine.

1-2-2 “ “ “ “ No. 2 “

1-2-3 “ “ “ “ No. 3 “

1-2 “ “ “ “ No. 1 Truck.

4 “ “ “ “ No. 4 Hose.

5 “ “ “ “ No. 5 “

6 “ “ “ “ No. 6 “

7 “ “ “ “ No. 7 “

Companies answering “Special Calls” will wait 30 seconds before leaving quarters, to prevent mistakes.

Signals.

1.—Blow for test at 11.45 A. M. and 5.45 P. M. Sundays, 12.15 P. M.

1-1.—Two Blows will be given when the companies in service at fires have "made up."

Should an alarm occur from another station before this signal is struck, companies answering Second will immediately answer on First; companies answering Third will answer Second.

1-1-1.—Three blows, General Alarm and calls entire Fire Department.

14.—Blows, followed by the station number, will assemble the Police, in case of emergency.

11-11.—Twenty-two. Signal of No. 1 Engine when called out of city. Same on return.

1-1-1.—Three blows. Signal of No. 2 Engine when called out of city. Same on return.

111-111.—Thirty-three. Signal of No. 3 Engine when called out of city. Same on return.

School Signals.

1-111.—Thirteen, once. Morning session at 8.15; afternoon session at 1.15.

INSTRUCTIONS.

Cautions to Persons Holding Signal-Station Keys.

Never open or touch the apparatus except in case of fire.

Never sound the alarm for a fire seen at a distance, unless assistance is called for.

Be reasonably sure there is a fire, before sounding the alarm.

Be sure your station is locked before leaving it.

Never let the key go out of your possession, except to some responsible person, to give an alarm of fire, and be sure the key is returned.

If you remove from your house or place of business, return the key to the Chief of Fire Department, City Hall.

Directions in Case of Fire.

Get the key to the nearest station to the fire; open and pull the hook all the way down once: and let go. If you hear no sound from the bells or tapper in the station, pull again. If you fail the second time, go to the next nearest station and do the same, but do not touch any other if the nearest one gives the alarm.

Remain at the station, if possible, after giving an alarm, to direct the firemen to the fire.

No person will give alarms for the same fire (after the first alarm has been given), without an order from the Chief or Assistant Chief.

Citizens are earnestly requested to keep themselves informed as to the location of keys. Signs over each station will give the desired information.

STATEMENT OF DETAILS OF FIRES AND ALARMS FOR THE
YEAR ENDING DECEMBER 31, 1885:

January 14—Station 75—5.19 p. m. Cypress street. Three-story frame dwelling, 28 x 40. Owned and occupied by Mrs. Anna S. Cushman. Loss \$304. Insured. Cause, defective open grate. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

January 27—Station 15—5.28 p. m. Centre street. Four-story brick stores and tenements, 40 x 100. Owned by Andrew Cole (heirs), occupied by H. B. Coffin and others. Loss \$35. Insured. Cause, ignition of window trimmings from gas jet. Apparatus present: 1 engine, 4 hose, 1 truck, chief department.

February 3—Station 15—12.24 p. m. Brooks street. Three-story frame, unoccupied, 30 x 60. Owned by C. M. Billings. Loss \$575. Insured. Cause, smoking in building. Apparatus present: 1 engine, 4 hose, 1 truck, chief department.

February 19—"Special 3"—7.20 a. m. Wellesley Hills. Cause, call for assistance. Apparatus detailed: 2 engine, 6 hose, chief department.

February 19—"Special 22"—11.29 p. m. Watertown. Cause, call for assistance. Apparatus detailed: 1 engine, chief department.

February 28—Station 7—9.04 a. m. Institution avenue. Two-story frame stable, 12 x 20. Owned by Baptist Theolo-

gical Institute. Occupied by Dwight Chester. Loss \$150. Cause, incendiary. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

March 1—Station 23—9.22 p. m. Murray street. Three-story frame dwelling, 28 x 40. Owned by H. F. Ross. Loss \$25. Cause, slacking of lime. Apparatus present: 1 and 2 engines, 4 hose, 1 truck, chief department.

March 9—Station 23—5.16 p. m. Washington and Walnut streets. Two-story frame paint and carpenter stores, 25 x 30. Owned by R. M. Pulsifer. Occupied by J. H. Williams. Loss \$10. Cause, locomotive sparks. Apparatus present: 1 and 2 engines, 4 hose, 1 truck, chief department.

March 9—"Special 22"—Watertown. Cause, call for assistance. Apparatus detailed: 1 engine, chief department.

March 10—7.15 p. m. Beacon street and Crescent avenue. Three-story frame dwelling. Owned and occupied by Joshua Loring. Cause, burning chimney. Assistant chief called.

March 12—Telephone. Hunnewell avenue. Burning grass. Cause, locomotive sparks. Apparatus present: 1 engine, Captain Graves in charge.

March 20—Station 23—5 p. m. Washington and Walnut streets. Two-story frame stores, 20 x 30. Owned by R. M. Pulsifer. Occupied by J. H. Williams. Loss \$25. Insured. Cause, locomotive sparks. Apparatus present: 1 and 2 engines, 4 hose, 1 truck, chief department.

March 23—12.18 p. m. Prospect street ex. Burning grass. Cause, locomotive sparks. Hose 2, assistant foreman Humphrey in charge.

March 26—10.45 a. m. Walnut street. Fire wood land. Cause, children playing with matches. Extinguished by members of 7 hose, Assistant Smith in charge.

April 7—Telephone. 11.55 p. m. Sargent street. Burning grass. Cause, sparks from bonfire. Extinguished by 1 hose, Captain Graves in charge.

April 10—"Special 22"—12.25 p. m. (Brighton district.) Apparatus detailed: 1 engine, chief department.

April 10—Station 9—12.37 p. m. Dedham street. Grass land. Cause, careless burning of rubbish. Apparatus present: 3 engine, 7 hose, assistant chief.

April 11—Station 112—9.43 a. m. Hunnewell avenue. Fences and outbuildings. Loss \$10. Cause, children playing with matches. Apparatus present: 1 engine, 4 hose, 1 truck, chief department.

April 15—Station 36—3.45 p. m. Greenough street. Grass land and fences. Loss \$25. Cause, careless burning of rubbish. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, chief and assistant chief.

April 16—Station 16—10 a. m. Second, 10.04 a. m. By order, His Honor the Mayor, as an exhibit of a portion of the department before the Legislative Committee on Annexation. Apparatus present: 1, 2 and 3 engines, 4, 5 and 6 hose, 1 truck, chief and assistant chief.

April 16—10 a. m. Watertown street. Grass land. Cause, careless burning of rubbish. Extinguished by Driver Murphy, 1 truck.

April 16—"Special 22"—2.15 p. m. Brighton. Apparatus detailed: 1 engine, chief department.

April 16—6.45 p. m. Rowe street. Grass land. Cause, locomotive sparks. Extinguished by 5 hose.

April 17.—Station 64—11 a. m. Walnut and Dedham streets. Wood land. Cause, unknown. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

April 17—Station 36—11.05 a. m.—Washington street. Grass and fences. Loss \$75. Cause, careless burning of rubbish. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, chief department.

April 18—Station 64—12.12 p. m. Forest street. Grass land. Cause, careless burning of rubbish. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

April 19—12.45 p. m. Grove street. Wood land. Cause, children playing with matches. Extinguished by 6 hose, Captain Early in charge.

April 20—Station 45—11.55 a. m. Washington street. Grass and fences. Cause, careless burning of rubbish. Loss \$50. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, chief and assistant chief.

April 20—Station 8—12.55 p. m. Hammond street. Wood land. Cause, careless burning of rubbish. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

April 20—Station 91—4.13 p. m. Boylston and Parker streets. Wood land. Cause, careless burning of meadow. Apparatus present: 3 engine, 7 hose, chief and assistant chief.

April 20—Telephone—7.55 p. m. Fuller street. Wood land. Cause, rekindling previous fire. Extinguished by 2 hose, chief department.

April 20—Telephone—8.15 p. m. Needham street. Woods. Cause, maliciously set. Extinguished by 7 hose, Captain Cargill.

April 21—Station 71—10.28 a. m. Walnut street. Wood land. Cause, set by children. Apparatus present: 3 engine, 4 and 7 hose, 1 truck, chief department.

April 21—Station 61—11 a. m. High street. Grass and fences. Cause, careless burning of rubbish. Apparatus present: 3 engine, 7 hose, 1 truck, chief department.

April 21—Station 74—2.09 p. m. Lake avenue. Wood land. Cause, children playing with matches. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

April 21—Station 64—2.40 p. m. Lincoln street. Grass and fences. Loss \$100. Cause, careless burning of rubbish. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

April 21—Station 36—4.19 p. m. Washington street, Wood land. Cause, maliciously set. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, chief department.

April 21—Telephone—Washington street. Wood land. Rekindling previous fire. Extinguished by 2 hose, chief department.

April 22—Station 8—4.44 p. m. Boylston street. Wood land. Alarm unnecessary. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

April 22—8.45 p. m. Beacon and Washington streets. Woods. Rekindling previous fire. Extinguished by 6 hose, Captain Early in charge.

April 22—8.15 p. m. Needham street. Wood land. Cause unknown. Extinguished by Engineer Coughlan of Pumping Station and members of 7 hose.

April 23—2.30 p. m. Station and Boylston streets. Wood land. Extinguished by 3 hose, assistant chief in charge.

April 25—Station 5—9 a. m. Grove street. Grass and fences. Cause, careless burning of rubbish. Apparatus present: 2 engine, 5 and 6 hose, 1 truck, chief and assistant chief.

April 25—Telephone—12.15 p. m. Wesley street. Grass and fences. Cause, careless burning of rubbish. Apparatus present: 1 hose, Captain Graves.

April 27—Telephone—Needham street. Wood land. Cause, incendiary. Extinguished by 7 hose.

May 7—Station 37—9.28 a. m. Highland street. Wood land. Alarm unnecessary. Apparatus present: 2 engine, 4 and 5 hose, 1 truck, chief and assistant chief.

May 13—Telephone—7 p. m. Walker street. Fire on the dump. Extinguished by permanent employees, 1 truck and 4 hose, and Crowley of 2 engine.

June 12—Station 53—7.40 p. m. Grove street. Wood land. Cause, locomotive sparks. Apparatus present: 2 engine, 6 hose, 1 truck, chief and assistant chief.

June 15—Station 71—7.37 a. m. Homer street. Two and a-half story frame dwelling, 20 x 40. Owned by A. H. Rolfe. Occupied by Mrs. Purcell. Loss \$10. Cause, children playing with matches. Apparatus present: 3 engine, 4 and 7 hose, 1 truck, chief and assistant chief.

June 22—Station 35—10.30 p. m. Washington street. Two-story frame carpenter shop, 30 x 60. Owned by Granville Fuller. Occupied by Henry Hunt. Loss \$843. Insured. Cause, locomotive sparks. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, chief and assistant chief.

June 24—Telephone—Boylston street. Grass land. Cause, locomotive sparks. Apparatus present: 7 hose, Capt. Cargill.

June 29—Station 73—6.32 p. m. Dudley street. Two buildings, two-story frame dwelling, 20 x 28; two-story frame stable, 20 x 30. Owned by George E. Wales. Occupied by F. W. Foster. Loss \$3000. Insured. Both buildings total loss, being out of water limits. Apparatus present: 3 engine, 7 hose, 1 truck, chief and assistant chief.

July 4—12.45 p. m. Washington street. Story and a-half frame stable. Owned by Methodist Society. Cause, fire crackers. Extinguished by Assistant Foreman Miles, 6 hose.

July 20—Station 24—1.50 p. m. Adams and Middle streets. Story and a-half frame stable, 14 x 28. Owned and occupied by J. Boyle. Cause, fumigating buildings. Apparatus present: 1 and 2 engines, 4 hose, 1 truck, chief and assistant chief.

August 1—Station 21—7.22 p. m. Washington street. Three-story frame dwelling, 30 x 50. Owned and occupied by Samuel P. Putnam. Loss \$125. Cause, lightning. Apparatus present: 1 and 2 engines, 4 hose, 1 truck, chief and assistant chief.

August 21—Station 16—5.12 p. m. Mount Ida street. Two-story frame dwelling, 28 x 40. Owned and occupied by George Leonard. Loss \$105. Insured. Cause, defective oil stove. Apparatus present: 1 engine, 4 hose, 1 truck, chief and assistant chief.

August 21—Station 15—7.48 p. m. Centre street. Two-story frame stores, 20 x 30. Owned by James W. French. Occupied by Ralph J. Renton. Loss \$60. Insured. Cause, upsetting oil lamp. Apparatus present: 1 engine, 4 hose, 1 truck, chief and assistant chief.

September 15---Station 35---9.10 a. m. Perkins street. Three-story frame dwelling, 20 x 30. Owned and occupied by H. R. Davis. Cause, overturn of oil stove. Damage slight. Apparatus present: 2 engine, 4 hose, 1 truck, chief and assistant chief.

September 16---Station 13---3.46 a. m. Second, 3.49 a. m. Centre street. Two, one-story frames, 20 x 40. Cattle and tool sheds. One two-story frame stable, 28 x 30. Owned and occupied by A. Lawrence Edmands. Loss \$9000. Insured. Cause, unknown. Apparatus present: 1, 2 and 3 engines, 4, 5 and 7 hose, 1 truck, chief and assistant chief.

September 22---"Special 22"---7.43 p. m. (Brighton district.) Apparatus detailed: 1 engine, chief department.

September 30---Telephone---Wellesley Lower Falls. Cause, call for assistance. Apparatus detailed: 6 hose, Capt. Early in charge.

October 6---Station 82---1.06 p. m. Waverly avenue. Three-story frame dwelling, 28 x 40. Owned and occupied by W. Henry Brackett. Loss \$1100. Insured. Cause, defective flue. Apparatus present: 1 and 3 engines, 4 hose, 1 truck, chief and assistant chief.

November 5---Telephone---1.23 p. m. Cherry and River streets. Grass and fences in old cemetery. Cause, set by children. Extinguished by Driver Berry and Hoseman Riley, engine 2.

November 11---Station 73---12.04 a. m. Homer and Morton streets. Second, 12.12 a. m. Two and a-half story frame stable, 40 x 60. Two-story "L" frame to dwelling. Owned and occupied by Langdon S. Ward. Loss \$3500. Partially insured. Cause, incendiary. Apparatus present:

1 and 3 engines, 4, 6 and 7 hose, 1 truck, chief and assistant chief.

November 14—Telephone—6.15 p. m. Cabot and Walnut streets. Wood land. Cause, set by children. Extinguished by 4 hose, 1 truck, chief department.

December 7—Station 15—10.56 a. m. Washington street. Two-story frame dwellings, 28 x 30. Owned and occupied by Henry Tolman, jr. Cause, ignition of rubbish in hot-air pipe. No damage. Apparatus present: 1 engine, 4 hose, 1 truck, chief and assistant chief.

December 16—Station 15—4.30 p. m. Washington street. Three-story frame store, 30 x 60. Owned by Joseph N. Bacon. Occupied by Francis Murdock. Loss \$15. Insured. Cause, careless handling of lamp. Apparatus present: 1 engine, 4 hose, 1 truck, chief and assistant chief.

December 26—Station 45—7.45 p.m. Crescent street. Grass and fences. Cause, locomotive sparks. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, chief and assistant chief.

December 28—Station 4—1.33 p. m. Auburndale avenue. Wood land. Cause, set by children. Apparatus present: 2 engine, 4, 5 and 6 hose, 1 truck, assistant chief.

December 29—Allston street. Grass and fences. Cause, locomotive sparks. Extinguished by Driver Murphy, 1 truck.

December 30—Walnut street. Grass land. Cause, set by children. Extinguished by Driver Murphy and Williams of 1 truck.

December 30—Telephone—4 p. m. Mill street. Wood land. Cause, incendiary. Extinguished by 3 hose, assistant chief.

RULES AND REGULATIONS

FOR THE GOVERNMENT OF THE

NEWTON FIRE DEPARTMENT.

CHIEF OF DEPARTMENT.

The Chief of Department shall have the sole and absolute command at fires and alarms of fires over all members of the department and of all other persons present at fires, and of all apparatus and appurtenances belonging to the department, and direct all measures he may deem proper for the extinguishment of fires. He shall devote his whole time to the performance of the duties of his office. He shall visit the engine, hose, and truck stations daily, if possible (Sundays excepted), and report to the Fire Committee or Board of Aldermen such suggestions or recommendations as he may deem necessary. He may, from time to time, issue such orders for the government of the members as [he may deem necessary, subject to the approval of the Mayor and Aldermen.

He shall have power to suspend any officer or member of the department for insubordination, disorderly conduct, or neglect of duty, said suspension to continue, pending the action of the Mayor and Aldermen.

ASSISTANT CHIEF.

In the absence of the Chief of Department the Assistant Chief shall have the same authority, and exercise the same powers, as the Chief of Department. On arrival at fires he shall report to the officer in command, and when on duty wear his fire-hat.

He shall have, under the direction of the Chief of Department, general supervision and management of all the telegraph apparatus belonging to the department, and every thing pertaining to the same. He shall keep the same at all times in perfect working order, and repair all breaks in the most expeditious manner, reporting to the Chief of Department for all necessary supplies, and such improvements as he may think advisable. When additional help is necessary, he will make application to the Chief of Department, and, when in the immediate vicinity of the department houses, he may obtain the assistance of the regular members, by direction of the Chief of Department. He shall give necessary instructions to persons in the department and to key-holders. He shall devote his whole time to the duties of the position.

ENGINEERS.

The engineers shall have full control of the engine, bunk, and meeting-rooms and basements, and shall report to the Chief of Department at once the name of any member of the department, or other person, guilty of any disorderly conduct, or violation of the Rules and Regulations; also any damage which their apparatus, or any part of it, their houses, or furniture, may have sustained. They shall keep an account of all supplies that come to the station, and promptly

report when materials are required for use; keep their engines at all times in condition for immediate service. Delays or accidents resulting from neglect will be sufficient cause for suspension or discharge. They shall instruct their stokers in the management of the engines. The use of all patent preparations for cleaning the metal is strictly prohibited. All material for polishing will be furnished from headquarters. Keep the safety valve set at eighty pounds, and run the engines according to the line of hose: a hundred pounds will be carried only when working through an extra long line, or two lines of, say five hundred feet each. Water-pressure will never exceed a hundred pounds, except on special order from the Chief or Assistant Chief of Department.

The following whistle-signals will be made use of in this department until further orders:

One whistle, signals pipemen to look out for water.

Two whistles, signal for burst hose.

Three whistles, signal for coal.

Two short and one long whistle, signal, "Make up."

Engineers will be on duty at all times. No member shall shut off the water, or in any manner move the machinery attached to the engine, except at request of the engineer.

When the services of the engine are not required, draw the fire, always leaving sufficient quantity for rekindling in case of another alarm while returning. All fuel partially consumed shall be preserved, and not be left burning in the streets.

DRIVERS.

Drivers permanently employed shall be on duty at all times. They shall be held personally responsible for their stables and for the care and management of their horses. They must not drive them faster than is consistent with the safety of the public and of the apparatus of the department. They will be held responsible for any damage caused by them, or carelessness displayed in conveying their apparatus to or from fires. Racing to or from fires will not be allowed under any circumstances. If the apparatus of two or more companies shall proceed to or from a fire on the same street they shall do so in single file. Returning from fires, they shall drive at a moderate rate of speed. On arriving at fires, the horses shall be blanketed, and kept moving, if possible, and upon returning to the house, if wet by perspiration, they must be immediately rubbed dry. These instructions will also apply to drivers of hose-carriages and tenders.

EXERCISE HOURS.

The horses used exclusively by this department will be exercised daily, in accordance with the following order:—

IN BOARD OF ALDERMEN,
April 21, 1884.

Ordered:

That on and after May 1, 1884, the several horses permanently employed in the Fire Department shall be exercised daily (Sundays excepted), and in the following streets, except when otherwise ordered by the Chief of Department:—

No. 1 Engine—Washington to Church, to Eldredge, to Vernon, to Park streets.

No. 2 Engine—Washington to Elm, to Webster, to Waltham, to Chestnut, to Margin streets.

No. 3 Engine—Willow to Beacon, to Crescent avenue, to Pleasant, to Centre, to Willow streets.

No. 1 Truck }
No. 4 Hose } Washington, Parsons to Central avenue.

Exercise hours to be regulated by Chief of Department, and not to exceed one hour, nor less than one-half hour. The rules governing inclement weather and holidays will remain in force. Any employee failing to conform to the above order, shall be subject to suspension."

H. L. BIXBY,
Chief of Department.

I. F. KINGSBURY,
Clerk.

When the horses have performed no duty within the twenty-four hours next preceding. The horses will not be exercised on public holidays, and never speed them faster than a slow trot.

' RIGHT OF WAY WHEN PROCEEDING TO FIRES,' AS ACCORDED BY LAW.

[Chaps. 37, Acts 1874.]

An Act to Punish the Wilful Obstruction of Fire-Engines, etc.

Whoever wilfully and maliciously obstructs, or retards, the passage of any engine, or other apparatus of any fire-department, while going to a fire, through any street, lane, alley, or other way, shall be punished by imprisonment in the House of Correction not exceeding three months, or by a fine not exceeding fifty dollars. [*Approved Feb. 28, 1874.*]

All drivers of this department will govern themselves by the above law, and use the utmost discretion at all times to avoid accidents. Hose-carriages, in response to alarms of fire, will follow the engines to which they belong. Call-drivers of hose-carriages will be required to sleep in their respective stations.

STOKERS.

The stokers shall respond promptly to all alarms, and, when in quarters, they will assist in hitching up. When on duty at fires, they shall be under the direction of their respective engineers, who shall require their whole and undivided attention. On return from fires, they shall remain on duty until relieved by their engineers. They will be required to sleep in their respective stations.

FOREMEN.

It shall be the duty of the foremen of all companies where permanent men are not employed to see that the apparatus committed to their care, and the several stations in which the same are deposited, and all things in or belonging to the same, are kept neat and clean, and in order for immediate use; to see that the snow is cleared from the sidewalks and driveways connected with the stations under their charge.

FINES.

Foremen of companies will see that the following fines for non-attendance are rigidly enforced:

For absence from fires and alarms	\$1 00
For absence from regular and special meetings	50

ASSISTANT FOREMEN.

The assistant foreman shall, in the absence of the foreman, perform all the duties, and exercise the same authority as the foreman.

MEMBERS.

The members of the several companies shall, upon an alarm of fire from the section of the city to which they are assigned for duty, proceed promptly to the place of the fire in an orderly manner, report to the foreman, and perform any duty that may be required of them. They shall remain on duty until relieved by orders, which shall be given only by the officer in command. If the company to which they are attached does not respond to the alarm on first call, they shall proceed to their engine, hose or truck stations, and remain thirty minutes, unless called into service, or relieved by dismissal. No member shall be absent from duty for a longer period than one month, except in case of sickness, or by special permission of the Chief of Department. No person whose occupation requires his daily absence from the city will be eligible to membership in this department. Any officer or member of this department who shall remove from the city shall thereupon cease to be a member; and all members of the department will be required to live within a reasonable distance of their respective stations.

SUBSTITUTES.

Each company may have two substitutes to take the places of call-members absent from the city, or disabled by sickness. They shall be approved by the Chief of Department, and shall, if for services rendered for a period of fifteen days or more, receive the same compensation as their principals, to be deducted from their principal's pay. Any substitute serving for a less time than fifteen days shall be

paid the amount of fines imposed on his principal for non-attendance at fires or alarms. Any member failing to pay his substitute on the following pay-day shall be subject to dismissal. No substitute can be assigned to duty in place of his principal during the time of a fire or an alarm of fire.

BUNKERS.

Call-men to whom beds are assigned will be required to retire at or before 11 P. M., unless excused by the engineer, or person in charge of the station, and will not be allowed to use or occupy the same during the day, unless deprived of their usual rest by the performance of active fire duty, or in case of sickness sufficient to require the use of the same. No visitors will be allowed in the bunk-rooms after hours, or at any other time while the beds are occupied. It shall be the duty of the engineer to immediately report to the Chief of Department any misconduct or violations of the rules on the part of persons occupying said beds. The occupant of each bed will be held responsible for the cleanliness of the same, and for any damage to either bed or bedding through carelessness. All members occupying sleeping-quarters in the engine, hose, and truck stations, shall vacate their beds, from May 1 to Oct. 1, at 6.30 A. M., and from Oct. 1 to May 1, at 7 A. M.

HORSES AND FEEDING.

The system of feeding shall be as follows, particular care being exercised not to feed or water the horses while too warm:—

Four quarts of oats morning and night ; this, with about eight or ten pounds of hay after bedding the horses, will constitute the daily allowance for each horse, and must not be exceeded. But, when it shall be ascertained that a less allowance is sufficient, the driver will exercise discretion as to the quantity. The stalls to be cleaned early in the morning, after breakfast the horses groomed, and the harnesses cleaned. Horses sick or disabled will be immediately reported to the Chief of Department. No alteration or changes in harness will be permitted, except upon authority of the Chief of Department. When horses are in the shop for shoeing, the drivers shall remain with them, and shall report to the Chief of Department any unnecessary delay, or any work improperly executed, and will allow but one shoe to be removed at a time.

BADGES.

All members of the Department shall be provided with a badge, to be known as the Regulation Badge of the Department, which shall be worn in a conspicuous place during the time they are on duty; and no member shall lend his badge on any pretext whatever. Any member losing his badge shall immediately notify the Chief of Department, and use all diligence to recover the same. He shall be required to pay for the same before another badge will be provided, the money so paid to be refunded, should the badge be found. These badges shall at all times remain the property of the city. Any member loaning his badge to any person not connected with the Department shall be subject to dismissal. No person will be recognized as a member of this department, unless wearing his badge.

ROLL-CALL.

Upon returning from a fire, or an alarm of fire, the Assistant Foreman, or, in his absence, the Foreman, shall call the roll, and report to the Chief of Department any member absent and the excuse for the same; and in no case shall the permanent members act as substitutes for the call-members, or answer for them at roll-call.

LEAVE OF ABSENCE.

No permanent member shall leave the city, or be granted leave of absence, without notifying the Chief of Department, and procure a substitute to his acceptance; and the substitute shall be on duty before the applicant leaves his post, and the pay of the substitute may be deducted from the pay of the principal. Any member of the call-force expecting to be absent from the city shall notify the Foreman of his company, and procure a substitute to his satisfaction. Whenever leave of absence is granted to bunkers, they shall report the same to the person in charge of their station, and shall in like manner report their return.

SUPPLIES.

No member of the department will be allowed to make any purchases for the department, chargeable to the city, except by order of the Chairman of Fire Committee or Chief of Department.

MEALS.

For permanent members three hours daily will be allowed for meals, and will be so arranged that there shall be at all times one member on duty.

DUTIES AT FIRES.

At all fires, the first officer arriving shall, in the absence of the Chief or Assistant Chief, and until his arrival, act as Chief of Department, and be obeyed and respected accordingly. The men are required to move quickly, and obey orders promptly and without criticism. The officers in charge of the several companies shall, immediately on their arrival at a fire, report to the officer in command, and remain for orders. No company shall leave the fire grounds, or take the apparatus of which they have charge therefrom, without the order or permission of the officer in command. Any neglect of duty, disobedience of orders, or disrespect to officers, shall be reported to the Chief of Department. No member shall wilfully or maliciously direct a stream of water upon any fireman or citizen. All disputes which may arise between companies or individual firemen when on duty shall be settled by the engineer in command. Members of companies that are not in service at fires will not enter the buildings unless ordered, but remain convenient to the fire, equipped, and ready for orders.

GOING TO OR FROM FIRES.

Order and decorum will be preserved when going to or from a fire or an alarm. To guard against collision and accident when proceeding to fires, the gongs will be struck when approaching street-crossings, turning corners, and approaching the fire-grounds.

RIDING TO FIRES.

All drivers will be held responsible for any unnecessary overloading, and will in all cases judge of the ability of the horses, the condition of the streets, and the distance to travel. The men will mount and dismount as ordered by them. Officers will avail themselves of any opportunity to ride to fires (excepting on engines), to the exclusion, if necessary, of the men.

FIRE-GROUNDS.

All engine and hose companies responding to second or general alarms will connect, but will not lay their lines until they have reported to the officer in command at the fire for orders.

STATIONS.

Stations of the department shall be open from 10 A. M. until 10 P. M. for visitors, and at any other time for inspection by members of the City Government. On the Sabbath

all stations must be closed, and it is made the duty of the engineer or person in charge to see that order and quiet are preserved. All work other than that absolutely necessary will be omitted for the day. The permanent members of each station shall once in each week scrub the floors of their respective stations, and at all times keep them neat and clean. The members in charge of the several stations shall personally attend to the receiving of visitors, whether members of the City Government, officers of the department, or citizens. Citizens visiting the stations shall be courteously treated, have reasonable questions answered, and any proper information given. All members detailed to sleep in the stations must be in their quarters at the time stated for closing the station, unless otherwise excused, and all other persons must leave at that time.

DRILL.

Until further notice the truck company will drill once each month, from May 1 to October 1, and all other companies at such times as may be ordered by the Chief of Department.

CONDUCT.

All members of the department are strictly required in their intercourse with each other, social or official, to observe a courteous demeanor, and officers or men in addressing each other will do so in a respectful manner. While on duty at fires, the greatest degrees of silence compatible with a proper discharge of duty will be required. No profane or ungentlemanly language, or disorderly conduct, will be allowed on

the part of any officer or member of the department when on duty.

No spirituous or malt liquors will be allowed in any station of the department, or at any fire. If any member shall enter any station of the department intoxicated, or become intoxicated at a fire, he shall be subject to dismissal.

No gambling of any kind will be allowed in any station of the department.

GENERAL RULES.

RULE 1.

No driver of engine, hose, hook-and-ladder truck, or other vehicle, shall drive over any line of hose if it can be avoided.

RULE 2.

No company will be allowed to take its apparatus from their quarters, except in case of fire, without consent of the Chief of Department.

RULE 3.

The hose must be changed on reels once in four weeks, unless otherwise ordered by the Chief of Department, for which purpose the foreman will warn the members of his company detailed for this purpose; and any member absent, unless excused, will be fined the same amount as for absence from fires.

RULE 4.

Any member permanently employed who refuses or neglects to pay any just debt contracted during his connection with the department, it shall be deemed sufficient cause for suspension or discharge.

RULE 5.

No permanent officer or member of the department shall attend a caucus or political convention as a delegate, distribute tickets at any election, or take any part whatever in political matters other than to exercise a right of suffrage.

RULE 6.

All members of the department will be required to address officers by their respective titles when on duty.

RULE 7.

When any member shall leave the department, he shall thereupon return his badge, key, and copy of Rules and Regulations, in good condition, to the foreman of his company, who shall immediately notify the Chief of Department; and any member failing so to do shall have the amount deducted from his pay.

RULE 8.

No balls, parties, or social gatherings of any description shall be held in any building in charge of the department, except on permission from the Chief of Department.

RULE 9.

No property belonging to the city will be loaned, for any purpose whatever, except upon written order of the Chief of Department.

RULE 10.

No hoseman or truckman at call shall be entitled to pay for less than fifteen days' service. All appointments shall, as far as practicable, be made to date from the first or fifteenth day of each month.

RULE 11.

In the use of hydrants, all members of the department are instructed to use great care in the opening and closing of the same, and to see that each cap is properly adjusted before leaving. The first company connecting to a hydrant in case of fire will leave one member in charge of the same; should a second company or line desire connection, it will not be made until the line is complete to the fire, and orders given for water. Exceptions to this are ordered for engines, which will be given immediate connection (if ordered into service), and the hydrant left in charge of the engineer.

RULE 12.

Officers of companies, hosemen and laddermen will wear their fire-hats when on duty.

Approved by the Board of Mayor and Aldermen, April 19, 1880.

Attest: EDWIN O. CHILDS, *Clerk.*

H. L. BIXBY, *Chief Fire Department.*

ORDINANCES RELATING TO FIRE DEPARTMENT.

ORDINANCE XIII.

FIRE DEPARTMENT.

SECTION 1. A fire department is hereby established. Department established. Charter, § 7.

There shall be a Chief of Fire Department, an Assistant Chief who shall be operator of the fire-alarm under the direction of the Superintendent telegraph, three steam fire-engine companies, four hose companies, and one truck company.

Each steam fire-engine company shall consist of eleven men; to wit, a foreman, an assistant foreman, (who shall also be clerk), an engineman, a driver, a fireman, and six hosemen. Number of men and officers.

Each hose company shall consist of six men; to wit, a foreman, an assistant foreman (who shall also be clerk), and four hosemen.

Each truck company shall consist of thirteen men; to wit, a foreman, an assistant foreman (who shall also be clerk), a driver, and ten truckmen.

SECT. 2. The Chief of Department shall be Chief responsible for the discipline, good order, and Duties proper conduct of the officers and men consti-

tuting the department, and for the good condition of all houses, reservoirs, hydrants, wells, engines, hose, hose-carriages, hooks and ladders, trucks, and all apparatus and furniture thereto belonging, and connected with the department. He may suspend any officer or member, and shall forthwith refer his case to the Board of Aldermen for its action. He shall have the superintendence, and, under the direction of the joint standing committee on the fire department, the control, of the engine and other houses used by the department of the furniture therein, and of the engines and apparatus, as well as of all other property appertaining to the department.

May suspend.

Superintendence and control of houses and apparatus.

Sole command of members.

SECT. 3. The Chief of Department, or, in his absence, the Assistant Chief, shall have sole and absolute control and command of all the other members of the department and of other persons present at fires.¹ The officer in command of the

Fire-wards, etc., may order buildings to be pulled down.

¹ PUBLIC STATUTES.—SECT. 3. The fire-wards, or any three of them, present at a place in immediate danger from a fire, or, where no fire-wards are appointed, the selectmen, or mayor and aldermen present, or, in their absence, two or more of the civil officers present, or, in their absence, two or more of the chief military officers of the place present, may direct any house or building to be pulled down or demolished, when they judge the same to be necessary in order to prevent the spreading of the fire.

Engineer to have power of fire-wards under Sect. 3.

SECT. 4. In cities and towns, which by vote of the City Council, or of the legal voters respectively, have accepted the provisions of this section, or of chapter two hundred and one of the statutes of the year eighteen hundred and seventy-three, the engineer of a fire department in command at a fire shall, to the exclusion of all other persons, have the power conferred by the preceding section.

Acceptance.

[Stat. 1873, chap. 201. Accepted Feb. 12, 1877.]

company which first arrives at a fire shall be the officer in command until the Chief of Department or the Assistant Chief arrives.

SECT. 4. The Chief of Department shall keep Rolls. rolls of the companies, specifying the name, age, occupation, and residence, and the date of the admission and discharge, of each member of the department; and he shall keep an accurate account of all property belonging to it.

He shall, at the close of each three months, Reports of fires, etc. and oftener if required, make to the City Council a detailed report of the condition of the fire department, of losses and accidents by fire, with the causes thereof as well as they can be ascertained, and of the description of the buildings and other property destroyed or injured, the amount of insurance, and the names of the owners.

SECT. 5. The foremen shall preserve order Foremen. and discipline in their respective companies, and shall promptly report in writing the name of any member guilty of misconduct to the Chief of Department, who shall, if he thinks it proper, report thereon to the Mayor and Aldermen.

The foremen shall cause to be kept by the Rolls. respective clerks rolls of the companies, specifying the time of admission and discharge of each member, together with the age, residence, and occupation of each member, and a record of all the city's property intrusted to their care. Their rolls and record-books shall at all times be subject to the inspection of the Chief of Department;

and they shall furnish him with copies or abstracts thereof at his request.

Care of apparatus, etc.

SECT. 6. It shall be the duty of the men permanently employed in the department to keep the apparatus committed to their care, and the several buildings in which the same is deposited, and all things intrusted to their care, clean, and in order for immediate use, and to wash and dry the hose of the entire department when required so to do; and they shall clear the snow from the sidewalks and driveways connected with the houses under their charge.

Companies not to leave city, except.

SECT. 7. No company shall leave the city in case of a fire in another city or town, except by order of the Chief or Assistant Chief of Department.

Members not to be transferred, except.

SECT. 8. No member shall be transferred from one company to another, except by order of the Chief of Department.

Badge.

SECT. 9. Every member of the department shall wear at every fire such a badge as the Chief of Department shall prescribe; and no person without such badge shall, except by permission of the officer in command, enter within lines formed at a fire by such officer.

Shavings and other combustible material.
Pub. Stats., chap. 104, §§ 1-12.

SECT. 10. The Chief of department shall examine all places where shavings or other combustible materials are deposited or collected; and shall see to the removal of the same, whenever, in his opinion, the same are dangerous; and shall direct the owners, tenants, or occupants of such places to remove the same, which they shall do forthwith; and, in case of refusal or neglect, he

shall cause the same to be removed at the expense of such owners, tenants, or occupants.

SECT. 11. The Chief of Department shall observe all buildings in which steam-engines are used, and all buildings in process of erection or alteration, and make a record of such of them as in his judgment may be dangerous, and report thereon to the Mayor and Aldermen forthwith. Whenever, in the opinion of the Chief of Department, any camphene or other explosive or inflammable fluid or material should be removed, he shall forthwith notify and direct the owner, tenant, or occupant of the premises upon which the same are situated, to remove the same, which he shall forthwith do. In case such tenant, owner, or occupant shall refuse or neglect so to do, the Chief of Department shall cause the same to be removed at the expense of such owner, tenant, or occupant. No person shall obstruct the Chief of Department in carrying out the provisions of this section.

Inspection of
buildings by
Chief.

Steam-engines.

Camphene, etc.

SECT. 12. The Chief of Department shall, on the last day of each month, prepare a pay-roll of all persons regularly employed in the department, and present it to the committee on the fire department, for their action. On the last day of June and of December in each year, the clerk of each company shall make a roll, bearing the full name, age, occupation, and residence of every member of the company, specifying also the number of times the company has been called out, and the attendance of each member, to which shall be appended the following certificate:—

Chief to pre-
pare pay-roll.

“We, the undersigned, do hereby certify that, according to the best of our knowledge and belief, the foregoing persons are members of — company, and that said company had consisted of — members during the last six months; that during that time they have performed all the duties incumbent upon them as firemen, have been present at every turn-out of the company, or been duly excused, and that they are entitled to all the privileges and pay of firemen.”

Certificate of
pay-roll.

The certificate shall be signed by the foreman and clerk, and shall be delivered to the Chief of Department.

The Chief of Department shall examine these rolls, and, if they are found correct, shall approve them, and present them, with the pay-rolls of the several companies, to the committee on fire department, for their action.

Fire alarm
telegraph.

SECT. 13. The Chief of Department shall have the care and management of the rooms, apparatus, and machinery connected with the fire-alarm telegraph, and shall determine to whom shall be intrusted the keys of the signal boxes. He shall prepare rules and directions for giving alarms of fire through the telegraph.

Keys.

Signal-boxes.

SECT. 14. No unauthorized person shall open any of the signal boxes, except in case of fire, or interfere with the wires, or the poles, or other supports of the wires.

False alarms.

SECT. 15. The Chief of Department shall see that every person raising a false alarm of fire is prosecuted.

Gambling.

SECT. 16. No gambling shall be allowed in any building occupied by the fire department, nor shall spirituous liquors be kept or used there.

SECT. 17. No person shall draw water from the reservoirs or fire-hydrants, except in case of fire, and except as otherwise provided; nor shall any engine, hose, or truck, be taken out of the city, without permission of the Chief or Assistant Chief. No part of the apparatus shall be taken from the city, unless to a fire, without special permission from the Mayor and Aldermen.

Water from
hydrants, etc.

SECT. 18. No occupant of any building or room in which there is a hatchway or trap-door shall suffer the same to be left open at night.

SECT. 19. Any member of the department injured or disabled while on actual duty shall receive pay for the time lost in consequence, not exceeding three months.

Disabled mem-
bers.

SECT. 20. No person shall wantonly or carelessly set fire to any tree, bush, grass, leaves, brushwood, rubbish, or other substance in any place in the city of Newton.

Setting fires
wantonly to
trees, etc.

SECT. 21. Whoever shall violate any provision of this ordinance shall forfeit a sum not exceeding twenty dollars.

Penalty.

¹ Ordinance XV., § 19.

ORDINANCE XXIV.

BUILDINGS.

SECTION 1. No person shall erect, alter or rebuild, or essentially change, any building or any part thereof, for any purpose other than a dwelling house, without first obtaining in writing a permit from the Board of Aldermen. The application for such permit shall specify the location and size of said building, the material of

Permit.

which it is to be constructed, and the use for which it is intended.

SECT. 2. No person shall use any building, or part thereof, for any purpose rendering said building, or buildings adjacent thereto, hazardous, unsafe, or liable to be destroyed by fire, or dangerous to persons or property, without first obtaining a permit as named in section one.

Chimneys and
brick flues.

SECT. 3. All chimneys hereafter erected shall be built of brick, stone or other fire-proof, non-conducting material. All brick flues shall be smoothly plastered inside with mortar from top to bottom, and outside below the roofing. In no case shall chimney's rest upon any flooring without a footing of masonry or iron, supported by iron beams, having a secure bearing on iron at either end.

Hearths and
grates.

Hearths of fireplaces or grates shall be laid upon brick or other trimmer arches, or upon bars of iron supporting a bed of brick-work.

Wood-work.

No wood-work of any kind shall be placed at a less distance than one inch from the outside brick-work of any flue, and in no case shall a nail be driven into the masonry of any flue.

No wood-work shall be placed at a less distance than one inch from any tin or other metal flue or flues, pipe or pipes, used or intended to be used to convey heated air or steam in any building, unless such flues or pipes be cased with metal, leaving a free circulation of air all around the same.

Smoke-pipe.

No smoke-pipe shall pass through any stud or wooden partitions, whether plastered or not, with-

out being guarded either by a double collar of metal with at least four inches' air-space and holes for ventilation, or by a soapstone ring not less than three inches in thickness, and extending through the partition.

SECT. 4. Whoever violates any provision of the preceding sections of this ordinance shall be liable to a fine not exceeding one hundred dollars.

ORDINANCE XXII.

GUNPOWDER AND OTHER EXPLOSIVE COM- POUNDS.

SECTION 1. No person shall keep or deposit any gunpowder within the city, unless it is well secured in tight casks or canisters.

Pub. Stats.,
chap. 102, § 56.

No person shall keep or deposit more than fifty pounds of gunpowder in any shop, store, or other building which is within the distance of twenty-five rods from any other building or wharf; no person shall keep or deposit more than twenty-five pounds of gunpowder in any shop, store, or other building which is within the distance of ten rods from any other building; and no person shall keep or deposit more than one pound of gunpowder in any shop, store, or other building which is within ten rods of any other building, unless it is well secured in copper, tin or brass canisters, holding not exceeding five pounds each, and closely covered with copper, brass, or tin covers.

No person to
keep or deposit
gunpowder,
unless, etc.

Limit of
amount.

Licenses.

SECT. 2. Licenses may be granted by the Mayor and Aldermen, for the retailing of gunpowder, in form substantially as follows; to wit:—

Gunpowder License No.

LICENSE TO SELL GUNPOWDER IN THE CITY OF NEWTON.

This certifies that _____ of Newton is (or are) hereby licensed and authorized to sell gunpowder at retail, at _____ on _____ street, being _____ place of business in said city, for one year from the date hereof, at noon, provided _____ shall duly conform to the laws and to the provisions of the ordinance printed hereon. And in case the said _____ shall at any time during the term aforesaid infringe the laws, or any of the provisions of the said ordinance, then this license shall be void.

Dated at Newton this _____ day of _____ in the year of our Lord, one thousand eight hundred and _____

Sales without
license pro-
hibited.

No person shall sell any gunpowder within the city without such license. Every such license shall be in force one year from the date thereof, provided that any such license may be rescinded by the Mayor and Aldermen, at their discretion.

License may be
rescinded.

Sign.

SECT. 3. Every person so licensed shall keep a sign over the outside of the principal entrance from the street, of the building in which powder is kept, on which shall be printed in capitals the words, "Licensed to keep and sell gunpowder."

City Clerk to
keep record of
licenses, etc.
Place not to be
changed, etc.

SECT. 4. The City Clerk shall keep a record of all such licenses, and of the places designated therein; which places shall not be changed, unless by consent of the Mayor and Aldermen, in writing. Every person who receives a license shall sign his name to a copy of the rules prescribed in this ordinance, as evidence of his assent thereto.

SECT. 5. The provisions of this ordinance shall not apply or extend to the keeping or storing of metallic cartridges in fire-proof magazines, nor to cartridge-manufacturers, so long as they shall keep their powder in canisters, as prescribed in Sect. 4, and in fire-proof magazines, located and built to the satisfaction of the Mayor and Aldermen, and so long as such manufacturers allow no more than one hundred pounds of gunpowder in any magazine, or five pounds of gunpowder not made into cartridges, to be in any one workshop at any one time.

Exceptions.

Keeping in
magazines.

SECT. 6. No person, except on military duty in the public service of the United States or of this Commonwealth, shall keep, have, or possess, in any building, place, vehicle, ship, or other vessel within one rod of a dwelling-house, any explosive compound other than gunpowder, in quantity exceeding one-fifth of a pound.

Pub. Stats.,
chap. 102,
§§ 59, etc.

SECT. 7. The Mayor and Aldermen may license any suitable person to keep, store, and sell such compound, in accordance with the forgoing provisions.

Licenses.

SECT. 8. Any member of the police or of the Fire Department may enter the building or premises of any person so licensed, to make the examination provided by law, at his discretion, and on alarm of fire may cause such compound there deposited to be removed or destroyed, as the case may require.

SECT. 9. Whoever violates any provision of this ordinance shall be liable to a fine not exceeding twenty dollars.

Penalty.

STATISTICS OF FIRE DEPARTMENT.

From January 1, 1874, to December 31, 1885.

YEAR.	ALARMS.	MEMBERS.	LOSS.	INSURANCE PAID.	TOTAL INSURANCE.	APPROPRIATION.	VALUE OF REAL ESTATE AT RISK.
1874	31	151	\$88,300.00	Not Given.	\$55,000.00	\$38,916.32	Not Given.
1875	54	171	Not Given.	Not Given.	Not Given.	25,500.00	Not Given.
1876	61	171	\$54,430.00	Not Given.	\$40,400.00	25,000.00	Not Given.
1877	29	130	18,390.00	\$13,315.00	87,650.00	33,000.00	Not Given.
1878	47	80	23,665.00	23,035.00	60,435.00	23,000.00	Not Given.
1879	52	86	16,018.10	14,473.10	72,850.00	22,000.00	Not Given.
1880	39	79	16,380.00	13,247.00	43,350.00	21,990.00	Not Given.
1881	79	78	15,561.26	11,088.26	39,500.00	23,175.00	\$75,850.00
1882	59	78	20,159.10	15,429.10	203,350.00	23,073.00	185,925.00
1883	101	78	7,066.60	4,878.60	180,683.00	24,097.51	204,690.00
1884	51	73	35,441.70	32,651.70	176,450.00	24,000.00	124,460.00
1885	74	72	19,326.73	15,233.73	157,200.00	22,900.00	167,100.00

STATISTICS OF THE NEWTON FIRE DEPARTMENT.

From January 1, 1885, to December 31, 1885.

Number of telegraph alarms	-	-	-	-	-	-	44
Number of verbal and telephone calls			-	-	-	-	30
Total of alarms	-	-	-	-	-	-	74
Aggregate number of alarms, 1884	-	-	-	-	-	-	51
Increase in number of alarms	-	-	-	-	-	-	23
Alarms given by citizens	.	-	-	-	-	-	49
Alarms given by firemen	-	-	-	-	-	-	21
Alarms given by police	-	-	-	-	-	-	4
Loss on real estate	-	-	-	-	-	\$13,175.00	
Insurance paid on same	-	-	-	-	-	11,462.00	
Loss on personal property	-	-	-	-	-	6,151.73	
Insurance paid on same	-	-	-	-	-	3,771.73	
Loss over insurance paid	-	-	-	-	-	4,093.00	
Total insurance at risk	-	-	-	-	-	157,200.00	
Assessed value real estate at risk	-	-	-	-	-	167,100.00	
Total number of hydrants	-	-	-	-	-	-	444
Area protected by Fire Department	-	-	-	-	-	20 square miles.	

CITY OF NEWTON.

ANNUAL REPORT

OF THE

CITY ENGINEER,

FOR THE YEAR 1885.



Newton:

PRESS OF THE NEWTON JOURNAL.
1886.

OFFICERS OF CONTROLLING BOARDS AND COMMITTEES.

Chief Executive Officer (ex officio).

HIS HONOR THE MAYOR, J. WESLEY KIMBALL.

Joint Standing Committee on Highways.

ALDERMAN JAMES H. NICKERSON, Chairman.

Water Board.

EDWARD W. CATE, President.

Joint Special Committee on Parks.

ALDERMAN BENJAMIN S. GRANT, Chairman.

Joint Standing Committee on Public Property.

ALDERMAN GEORGE PETTEE, Chairman.

Board of Health.

ALDERMAN JOHN Q. HENRY, President, (January to July).

HIS HONOR THE MAYOR, J. WESLEY KIMBALL, President *ex officio*, (July to December).

CITY ENGINEER'S DEPARTMENT.

City Engineer.

ALBERT F. NOYES.

Principal Assistant Engineer.

FRED. H. BARNES.

Assistant Engineers.

WILLIAM S. FRENCH.

I. W. HASTINGS.

Transitman and Leveller.

WILLIAM P. MORSE.

Rodmen.

ARTHUR L. WOODRUFF.

STEPHEN CHILD.

REPORT.

CITY ENGINEER'S OFFICE, CITY HALL,
WEST NEWTON, MASS., Dec. 31, 1885.

To the Honorable City Council.

GENTLEMEN, — In compliance with Section 5 of Ordinance No. 9, I herewith respectfully submit the Annual Report of the City Engineer's Department for the year 1885.

Amount appropriated for the year 1885,	. . .	\$6,750 00
Amount expended	. . . . .	6,749 99
		<hr/>
Amount unexpended	. . . . .	\$ 0 01

CLASSIFICATION OF EXPENDITURES.

For salaries of city engineer, assistants, draughts-	
man, and rodmen,	. . . . . \$6,100 17
For car fares and other incidentals	. . . 203 61
For care and keeping of horse and wagon	. . 203 72
For drawing paper and other supplies	. . 211 64
For instruments and repairs	. . . 23 85
For horse hire	. . . . . 7 00
	<hr/>
Total amount	. . . . . \$6,749 99

The item of salaries of city engineer and assistants may be divided as follows :—

For defining street lines ; making surveys and maps, the examination of titles and draughting of reports and orders for street widenings, acceptance and extension ; office records ; defining and establishing proposed grades of streets ; surveys, plans and estimates for proposed work on highways ; and and all work relating to highways . . .	\$3,140 90
For clerical work in keeping highway accounts . . .	253 00
For establishing lines and grades for the extension of water pipes, locating and measuring service pipes, and for all work relating to water works	1,020 26
For copying all Newton plans at Registry of Deeds, office of the Clerk of Courts, and County Commissioners' office and indexing the same ; and for all indexing of other plans, deeds, etc.	489 51
For defining the lines, grading, making surveys and plans of the various parks ; for laying out and grading of Farlow Park ; and for all other work under the direction of the Joint Special Committee on Parks . . .	320 28
For defining the lines, surveys and plans of city property, making plans and specifications for the alteration and repairs on old buildings and superintending the execution of the same, under the direction of the Joint Standing Committee on Public Property . . .	315 05

For plans, estimates, reports, inspection of plumbing, and for all other work relating to the Board of Health	248 24
For defining lines and grades for the construction of drains and culverts, making preliminary surveys, plans, profiles, diagrams, estimates, calculations, and all work relating to drains	190 55
For making surveys and levels for plans, profiles and estimates for the use of the City Solicitor in suits for or against the city; for attending court, and all work relating to said suits	71 50
For all other miscellaneous work	50 88
Total amount	<hr/> \$6,100 17

Surveys have been made of the whole or a part of twenty-nine streets covering a length of six miles. Ninety-nine plans and profiles have been made. Levels have been taken over the whole or a part of forty-one streets or brooks, a total length of ten and four-tenths miles. Lines have been established on sixty-nine streets and grades on sixty-two streets. A survey has been made of the larger part of Newton Upper Falls, including twenty-five hundred feet of Charles River, the Newton Mills and all division lines, and the same has been plotted on a large district map. A survey and district map has also been made of a portion of Ward 3 lying north of the Boston & Albany Railroad. The total number of plans, profiles, tracings, etc., now in the office is 2483.

The minimum number of assistants employed during the past year is five; average number, six; and maximum number at any time, seven.

The work of the department has been routine in charac-

ter, no new work of any magnitude having been undertaken. The organization and plan of management outlined in reports of previous years has remained the same.

The Joint Standing Committee on Highways has reported favorably upon a large number of petitions for the widening, laying out and acceptance of streets upon condition that the properly releases of land and grade damages shall be given to the city. The proper releases have been drawn by this department and when properly executed the City will take final action upon the petitions.

In attempting to comply with requests for the lines and grades of some of the older streets, it has been found that the records are either incorrect or that the lines produced by them are inconsistent with their probable intention, and therefore the correct lines cannot be determined. During the coming year I shall submit to you, my recommendations that such streets be relaid out.

The time of the department having been so completely taken by other duties, the defining of street lines by stone bounds, as required by law, has been neglected. The importance of doing this as a measure of economy, as well as a requirement of law, will be apparent to all, and I would therefore recommend that a special appropriation, chargeable to the general appropriation for Highways, Widening, Reconstruction and Improvements be made for this purpose.

The various ordinances relating to the City Engineer's Department which have been passed from time to time are herewith appended to this report.

HIGHWAY ACCOUNTS.

A compliance with Section 5 of Ordinance IX necessitates the keeping of a set of accounts of all the work of the Highway department. While the system adopted is sufficient

for the purpose required and as complete as my information will allow or as I may be authorized by either the City Council or Committee to adopt, it is not what it should be for the proper record of so large an expenditure. If the authority and information were further extended such items as \$14,511.83 for miscellaneous expenses; or \$10,172.00 for work in gravel pits; or \$1,978.64 for patching streets, would not appear, but would be charged to their proper streets. A further record should be kept of the cost in detail of different classes of work performed under various conditions, in order to determine the economy or cost of one over the other. I would therefore recommend that such authority be given as will cause such accounts and records to be kept.

PERAMBULATION OF TOWN AND CITY LINES.

A special committee consisting of Aldermen Nickerson and Henry, the City Engineer and the Superintendent of Streets, appointed to represent the Board of Aldermen, together with committees from the Selectmen of the Towns of Watertown and Brookline on October 21, 1885 perambulated the lines and established anew the boundaries between said city and towns according to law. One new boundary stone was set in Lagrange street on the line between the Town of Brookline and the City of Newton.

HIGHWAY DEPARTMENT.

Highway Surveyors and Joint Standing Committee on Highways.

ALDERMAN JAMES H. NICKERSON Chairman.

ALDERMAN JOHN Q. HENRY.

COUNCILMAN GEORGE M. FISKE.

COUNCILMAN ALBERT F. UPTON.

COUNCILMAN CHARLES W. ROSS.

EXECUTIVE OFFICERS.

Superintendent of Streets.

WILLIAM E. FULLER.

Assistant Superintendents of Streets.

GEORGE E. STUART, Wards 1, 2 and 7.

JOHN J. WARE, Wards 4 and 5.

JOHN A. PECK, Ward 6

City Engineer.

ALBERT F. NOYES.

HIGHWAYS.

The management of the highways, the ordinary repairs, the building and rebuilding of streets, drains, culverts, sidewalks, etc., and the gravel lands, are under the general direction of the Joint Standing Committee on Highways, Streets and Ways, Sidewalks, Drains and Sewers, and the Highway Surveyors.

The committee for 1885 with exception of two members was the same as that of previous years. The executive officers of the department remained the same as for the last six years. The policy adopted several years ago has been continued and several miles of thoroughly made streets have been added to those already built.

The steam road roller purchased in 1881, the portable stone crusher and the portable engine purchased in 1883 have been kept constantly at work, have required little or no repairs and are in perfect condition. This is largely due to the intelligent care given to them by the engineer, William Kent, who has charge of all the machinery belonging to the department. The steam road roller has been run during the past season 2,215 hours; it has picked up 39,065 square yards of macadamized road; and has laid down 92,875 square yards of Telford, macadamized or gravel road; and it has been used for various other purposes.

The Superintendent of Streets would renew his recommendations of previous years in regard to consolidating the department into two districts instead of four as at present.

I would renew my previous recommendations in regard to the repairs of concrete sidewalks.

HIGHWAYS, GENERAL REPAIRS.

Amount appropriated by order of the City Council for highways, general repairs for the year 1885	\$50,000 00
Amount of additional appropriation by order of the City Council	5,000 00
Amount received from Boston & Albany R. R. Co.	9,216 93
Amount received from sale of highway property .	45 00
Amount received from abutters on Bellevue street	3,000 00
Amount transferred from appropriation for drains culverts.	3,000 00
Total appropriation	\$70,261 93
Amount expended as per Auditor's records .	70,185 53
Balance unexpended	\$76 40
Amount charged for maintenance as per Superintendent's and Assistant Superintendent's records of work (including work done for B. & A. R. R. Co.)	\$50,817 36
Amount charged for miscellaneous expenses as per sundry bills in Auditor's records . .	14,511 83
Amount charged by Auditor in access . .	4,856 34
Total amount expended	\$70,185 53

The following table will show in detail the amount expended on each street for maintenance, as made up from the Superintendent's and Assistant Superintendent's records of work:—

Alpine	\$35 01
Ash	243 68
Auburn	49 13
Auburndale Ave	21 00
Baldwin	1 23
Beacon	80 61
Beacon (at Newton Circuit R. R.)	1,312 02
Beacon (Pope's Hill to Station Street) . .	4,993 43
Bellevue	47 25
Bourne	15 83
Bowers	464 12
Boyd	10 50
Boylston	447 91
Boylston (at Newton Circuit R. R.) . . .	692 23
Cabot	74 22
California	1 75
Central Avenue	32 38
Central	22 13
Centre	698 64
Channing Avenue	4 00
Chapel	11 00
Cherry	208 01
Chestnut	328 15
Chestnut (at Newton Circuit R. R.) . . .	86 11
Columbus	17 50
Concord	13 66
Cottage	26 25
Cotton	99 38
Crafts	1,220 40
Crafts Square	325 49
Crescent Avenue	7 25
<i>Amount carried forward</i>	<hr/> \$11,590 27

<i>Amount brought forward</i>	\$18,676 86
Pelham	5 25
Pembroke	15 75
Perkins	153 33
Pleasant	509 46
Prospect	80 20
Putnam	56 61
Richardson	15 01
River	160 42
St. James	12 95
Sargent	21 37
Seaverns	15 21
Shaw	61 29
South	23 50
Station	41 13
Sumner	31 50
Temple	15 47
Tremont	1,419 95
Trowbridge	5 25
Turner	13 38
Valentine	91 00
Vista Avenue	21 75
Waban	7 19
Walker	8 75
Walnut Park	113 95
Walnut	129 79
Walnut (near Austin Street)	786 74
Waltham	190 75
Ward	268 00
Warren Avenue	3 50
Warren	5 50
<i>Amount carried forward</i>	<hr/> \$22,960 67

The principal work performed has been upon the following streets, and in the following manner :

Beacon, Boylston, Chestnut, Elliot and Washington streets at the crossings of the Newton Circuit Railroad were regraded and the cost of the same was paid by the Boston & Albany Railroad Company.

Beacon Street, from the top of Pope's Hill to Station Street ; Jackson Street, from Cypress Street westerly to the foot of the hill ; Norwood Avenue, near Centre Street ; Tremont Street, from Park Street to Boston Line ; and Washington Street, from Adams Street easterly were macadamized and rolled.

Ash Street ; Crafts Street ; Florence Street ; Lexington Street, from River Street to Waltham Line ; Watertown Street, from Brookside Avenue westerly ; and Washington Park were gravelled and rolled.

On Pleasant Street, from Crescent Avenue easterly, the grade was lowered.

Walnut Street, from B. & A. R. R. to Spruce Street, was widened and regraded.

A large amount of the work performed under this appropriation by special orders of the City Council could, from its nature, be properly classed under that of Highways, Widening, Reconstruction and Improvements.

HIGHWAY, WIDENING, RECONSTRUCTION AND IMPROVEMENTS.

Amount appropriated by the City

Council for highway widenings,

reconstruction and improvements

for the year 1885	\$15,000 00
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<i>Amount carried forward</i>	<u>\$15,000 00</u>
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<i>Amount brought forward</i>	\$15,000 00
Amount of additional appropriation by the City Council	2,000 00
						<hr/>
Total appropriation	.	.	.	.	.	\$17,000 00
Amount charged to appropriation for highway widenings, reconstruc- tion and improvements as per Au- ditor's records	.	.	.	.	.	17,000 00
Amount charged by Auditor to other appropriations	.	.	.	.	.	4,257 98
						<hr/>
Total amount expended as per Super- intendent's and Assistant Super- intendents' records of work	.	.	.	.	.	\$21,257 98
The above amount has been expended on the following named streets:						
Auburn street, Ward 4, near B. & A.						
R. R., widening:—						
For labor, etc., as per rolls	.	.	.	.	.	\$264 33
For material, etc., as per bills	.	.	.	.	.	74 46
						<hr/>
						\$338 79
Austin street, Ward 2, from Walnut street to pipe yard, widening:—						
For labor, etc., as per rolls	.	.	.	.	.	\$665 83
For material, etc., as per bills	.	.	.	.	.	25 40
						<hr/>
						691 23
Bellevue street, Ward 1, from Washington street to B. & A. R.R., construc- tion:—						
						<hr/>
<i>Amount carried forward</i>	.	.	.	.	.	\$1.030 02

<i>Amount brought forward</i>					\$1,030 02
For labor, etc., as per rolls	\$2,734	04			
For material, etc., as per bills	452	72			
					<hr/> \$3,186 76

Bellevue street, Ward 1, from
B. & A. R. R. to New-
tonville Avenue, recon-
struction:—

For labor, etc., as per rolls	\$1,532	89			
For material, etc., as per bills	537	65			
					<hr/> \$2,070 54

Bellevue street, from Newtonville
avenue to near Howard street, re-
construction:—

For labor, etc., as per rolls			\$1,865	34	
For material, etc., as per bills			189	46	
					<hr/> 2,054 80

Cabot street, Ward 2, near Harvard
street, building fence:—

For labor, material, etc., as per bill					30 00
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Centre street, Ward 6, Rice to Homer
streets, lowering grade and widen-
ing roadway:—

For labor, etc., as per rolls			\$1,120	88	
For material, etc., as per bills			11	58	
					<hr/> 1,132 46

Grove street, Ward 4, corner of Au-
burn street, widening:—

For labor, etc., as per rolls			15	00	
For material, etc., as per bills				50	
					<hr/> 15 50

<i>Amount carried forward</i>					<hr/> \$9,520 08
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<i>Amount brought forward</i>	\$9,520 08
Walnut street, Wards 2 and 6, from Mill to Beacon streets, lowering grade and reconstruction:—	
For labor, etc., as per rolls . . .	\$9,225 99
For material, etc., as per bills . . .	699 47
	<hr/> 9,925 46
Ward street, Ward 6, near Grant avenue, widening:—	
For labor, etc., as per rolls . . .	\$1,033 81
For material, etc., as per bills . . .	63 58
	<hr/> \$1,097 39
Washington Street, Ward 4, building fence:—	
For labor, material, etc., as per bill . . .	1 27
Webster Street, Ward 3, Webster Place to Cres- cent Street, regrading and reconstruction—	
For labor, etc., as per rolls	702 00
Miscellaneous	11 78
	<hr/>
Total	\$21,257 98

CURBING.

Amount appropriated by order of the City Council for the year 1885	\$1,500 00
Amount charged to appropriation for curbing as per Auditor's records	\$1,500 00
Amount charged by Auditor to other appropriations	915 54
	<hr/>

Total amount expended as per Superinten-
dent's and Assistant Superintendents' records of
work \$2,415 54

The following table shows the number of linear feet, kind and cost of curbing which has been laid :—

CURBING LAID IN 1885.

STREET.	WARD.	LINEAR FEET OF STRAIGHT CURBING.	LINEAR FEET OF CURVED CURBING.	TOTAL LENGTH OF CURBING	COST.
Beacon	6	—	17 10	17 10	\$19 49
Central Avenue	2	5 50	—	5 50	4 19
Centre	7	15 80	16 33	32 13	25 45
Crescent Avenue	6	—	17 10	17 10	19 49
Durant	7	—	16 50	16 50	20 84
Farlow Park	7	1220 24	35 48	1255 72	1135 66
Franklin	7	—	12 13	12 13	13 16
Highland	3	16 25	—	16 25	11 11
Jewett	1	12 00	—	12 00	5 90
Kenilworth	7	9 90	—	9 90	7 79
Margin	3	15 00	—	15 00	7 44
Monument	7	171 60	13 50	185 10	120 91
Park	7	8 00	12 12	20 12	39 28
Pembroke	7	—	16 50	16 50	20 83
Putnam (re-setting)	3	—	—	—	42 03
Sargent	7	—	17 80	17 80	27 39
Shaw	3	—	8 46	8 46	11 64
Vernon	7	102 48	17 74	120 22	96 92
Walnut	2	284 20	53 58	337 78	217 84
Washington	7	12 00	16 33	28 33	23 61
Waverley Avenue	7	184 00	49 04	233 04	283 82
Winthrop	3	11 60	8 46	20 06	70 25
Miscellaneous		102 62	—	102 62	49 15
Stock		302 65	—	302 65	141 35
Totals		2463 84	328 17	2792 01	\$2415 54

SIDEWALKS AND STREET CROSSINGS.

Amount appropriated by order of the City Council for the year 1885 \$6,500 00

Amount of additional appropriation by the City Council 1,000 00

Amount carried forward \$7,500 00

<i>Amount brought forward</i>	. . . . .	\$7,500 00
Amount transferred from appropriation for Drains and Culverts	. . . . .	1,500 00
		<hr/>
Total appropriation	. . . . .	\$9,000 00
Amount charged to appropriation for sidewalks and street crossings as per Auditor's records	. . . \$9,000 00	
Amount charged by Auditor to other appropriations	. . . . .	2,817 82
		<hr/>
Total amount expended as per Superinten- dent's and Assistant Superintendents' records of work	. . . . .	\$11,817 82

The following table shows the number of square yards of concrete sidewalk and street crossings laid and repaired, the number of feet of flag-stone crossings laid, and the cost of the same.

STREET.	WARD.	SQUARE YARDS OF CONCRETE.				No. OF FEET OF FLAGSTONE CROSSING.	COST.	REMARKS.
		SIDEWALKS NEW.	SIDEWALKS REPAIRED.	CROSSINGS NEW.	CROSSINGS REPAIRED.			
Adams	2	-	-	-	-	-	\$ 5 50	Gravel.
Auburn	4	-	-	19.38	-	-	85 72	Partly gravel.
Auburndale Ave..	4	-	-	-	-	-	69 57	Gravel.
Austin	2	431.05	-	-	-	-	180 16	Partly gravel.
Bacon	7	235.30	-	2.91	12.63	-	118 57	-
Baldwin	7	64.75	-	-	-	-	38 85	-
Beacon	6	-	125.06	-	-	-	86 09	Partly gravel.
Bellevue	1	107.51	-	-	-	-	196 60	Partly gravel.
Bowen	6	-	-	-	-	-	9 68	Gravel.
Bowers	2	546.86	129.10	-	-	-	503 52	Partly gravel.
Boylston	5	-	-	-	-	-	11 06	Gravel.
Cahot	2	-	-	-	-	-	33 04	Gravel.
Carleton	7	8.33	-	-	-	-	5 88	-
Central Avenue...	2	22.28	74.37	45 43	-	-	172 80	Partly gravel.
Central Place...	2	44.77	-	-	-	-	16 93	laid in 1883.
Centre	4	-	-	-	-	-	80 87	Partly gravel.
Centre Place...	1	186.66	-	147.85	32.22	-	91 28	-
Centre	1, 6, 7	251.32	381.60	-	-	-	509 12	-
Cherry	3	111.15	16.44	-	-	-	280 21	Partly gravel.
Chestnut	3, 5	171.91	-	-	-	-	205 09	Partly gravel.
Church	1, 7	392.98	254.11	-	-	-	266 36	-
Columbus	5	-	-	11.72	33.09	-	54 42	-
Concord	4	-	-	-	-	-	21 00	Gravel.
Cook	4	-	-	-	-	-	266 15	Gravel.
Cotton	5	-	-	-	-	-	353 87	Gravel.
Crafts	6	-	-	-	-	-	200 62	Gravel.
Crescent Ave	6	-	10.66	-	-	-	2 13	-

Crystal.....	6	77.32	-	18.80	23.86	-	51 11	Gravel.
Durant.....	7	-	-	-	-	-	87 18	Partly gravel.
Elliot.....	5	71.76	-	-	-	-	144 51	Partly gravel.
Elm.....	3	6.82	107.99	9.60	-	-	50 85	Partly laid in 1888.
Elmwood.....	7	6.11	-	-	-	-	23 28	Gravel.
Fairmont Avenue.	1	-	-	-	-	-	45 92	Gravel.
Farlow Park.....	7	-	-	-	-	-	109 34	
Floral.....	5	490.14	-	-	-	-	363 80	
Franklin.....	7	10.76	-	-	-	-	6 46	
Gardner.....	1	-	-	-	-	-	13 10	Gravel.
Grove.....	4	124.84	-	-	25.96	-	76 26	
Hancock.....	4	154.51	-	-	-	-	88 90	Partly gravel.
Hartford.....	5	-	-	-	-	-	135 97	Gravel.
Harvard.....	2	63.66	-	-	-	-	83 95	Gravel.
Highland.....	3	36.46	-	3.47	37.19	-	54 67	
Hillside Avenue..	3	-	87.74	12.18	-	-	65 56	
Homer.....	6	-	-	36.56	-	-	249 31	
Hovey.....	1	30.74	32.70	-	-	-	26 06	
Institution Ave..	6	368.77	-	-	-	-	442 31	
Jewett.....	1	36.47	-	-	-	-	28 88	
Lake Avenue.....	6	165.70	-	65.94	11.00	-	268 75	Partly gravel.
Lexington.....	5, 6	474.02	-	16.82	-	-	240 51	
Lincoln.....	5	42.28	62.27	39.60	-	-	109 68	
Lowell.....	2	-	-	-	-	-	30 13	Gravel.
Lyman.....	6	-	-	-	-	-	18 25	Gravel.
Margin.....	3	-	-	-	-	-	3 57	Gravel.
Marshall.....	6	276.19	-	30.76	-	-	158 89	
Mill.....	2	-	-	-	-	-	136 50	Gravel.
Moreland Ave.....	6	100.81	-	-	-	-	80 49	
Mount Vernon....	3	70.22	85.17	-	-	-	171 66	Partly gravel.
Murray.....	2	-	-	-	-	-	12 25	Gravel.
<i>Ants carried fore'd</i>		5,182.45	1,367.21	461.02	175.95	.....	\$7,243 19	

STREET.	WARD.	SQUARE YARDS OF CONCRETE.				No. OF FEET OF FLAGSTONE CROSSING.	COST.	REMARKS.
		SIDEWALKS NEW.	SIDEWALKS REPAIRED.	CROSSINGS NEW.	CROSSINGS REPAIRED.			
<i>Ants brought from'd</i>	.....	5,182.45	1,367.21	461.02	175.95	.....	\$7,243 19	Gravel.
Nevada	2	—	—	—	—	—	84 75	Gravel.
Newtonville Ave.	1, 2	—	—	—	—	—	50 21	
Nonantum Place.	7	130.50	—	21.25	—	—	57 01	Gravel.
Nonantum	7	—	—	—	—	—	75 53	Gravel.
North	2, 3	—	—	—	—	—	10 50	Gravel.
Oakland	1	—	—	—	—	—	2 63	Gravel.
Orchard	7	—	—	—	—	—	7 00	Gravel.
Otis	2	51.48	—	—	—	—	73 07	Partly gravel.
Park	7	503 00	222.55	—	—	49.30	575 83	Partly gravel.
Parker	6	—	—	—	—	—	41 87	Gravel.
Paul	6	67.39	—	—	—	—	21 80	
Pearl	1, 7	4.47	—	—	—	—	113 23	Partly Gravel.
Pembroke	7	—	—	—	—	—	27 75	Gravel.
Perkins	3	166.20	306.88	75.91	—	—	171 59	Partly gravel.
Putnam	3	—	—	—	—	—	23 00	Gravel.
Richardson	1	146.34	39.39	—	—	—	144 70	
River	3	—	—	—	—	—	77 20	Gravel.
Sargent	6, 7	—	—	—	—	—	16 01	Gravel.
School	1	74.99	—	—	32.29	—	70 35	
Summer	6	—	—	—	—	—	60 83	Gravel.
Tremont	7	—	—	—	—	—	3 50	Gravel.
Vernon	7	553.69	343.64	—	—	—	450 22	
Waban Park	1	8.52	—	—	—	—	22 61	
Waban	1	118.73	—	26.09	—	—	86 71	
Walnut Park	1	86.84	126.61	—	—	—	55 72	
Walnut	2, 5, 6	10.39	—	—	—	—	600 19	Partly gravel.

Waltham.....	3	—	—	—	—	—	—	10 50	Gravel.
Ward.....	6	—	—	—	—	—	—	10 75	Gravel.
Warren.....	6	—	—	—	—	—	—	5 25	Gravel.
Washington Park.....	2	—	—	—	—	—	—	64 85	Partly gravel.
Washington.....	1,2,3,4,7	134.95	193.56	49.26	28.46	77.70	141.06	518 80	Gravel.
Watertown.....	1, 2, 3	—	—	66.71	19.91	—	—	336 43	Partly gravel.
Waverly Avenue.....	7	252.95	132.40	3.78	—	—	—	103 46	Partly gravel.
Webster.....	3	63.90	—	—	—	—	—	61 42	Partly gravel.
Winthrop.....	3	279.06	—	—	—	—	—	99 47	Partly gravel.
Woodland Ave.....	4	299.24	—	—	—	—	—	133 52	Gravel.
Woodward.....	5	—	—	—	—	—	—	101 71	Flagging.
Stock.....	—	—	—	—	—	168.83	—	122 34	Partly grading for con-
Miscellaneous.....	—	—	—	—	—	98.67	—	82 32	crete.
Totals.....	.....	8,135.18	2,732.24	704.02	397.67	394.50	\$11,817 82		

DRAINS AND CULVERTS.

Amount appropriated by order of the City Council for drains and culverts for the year 1885,	\$12,000	00
Amount transferred to appropriation for highways, general repairs	\$3,000	00
Amount transferred to appropriation for sidewalks and street crossings	1,000	00
Amount transferred to appropriation for land damages	550	00
		4,550 00
Total appropriation		\$7,450 00
Amount charged to drains and culverts as per Superintendent's and Assistant Superintendents' records of work	\$5,715	50
Amount charged by Auditor in excess	1,734	50
Total amount expended		\$7,450 00

The following table shows the length of each kind, size and cost of drains constructed during the year, and the streets in which the same are laid.

DRAINS CONSTRUCTED IN 1885.

STREET.	SIZE IN INCHES.	LENGTH IN FEET.	MAN- HOLES	CATCH- BASINS	Feet of Size of Inlets.	COST.	LOCATION.
Austin	8	82	-	1	24½	\$71 42	Near Walnut Street.
Bellevue	8	36	-	2	40½	78 83	Washington St. to B. & A. R. R.
Bellevue	10	8	-	-	-	-	{
Bellevue	8	22	-	2	31½	397 81	{ B. & A. R. R. to Newtonville Ave.
Bellevue	*6	430	-	-	-	-	{
Bellevue	12	44	-	-	-	-	{ Newtonville Avenue southly.
Bellevue	*6	136	-	2	-	273 75	{
Bellevue	*4	878	-	-	-	-	{
Chestnut	10	50	-	1	-	38 44	Near Elliot Street.
Chestnut	6	51¾	-	-	-	6 98	Corner of Margin Street.
Cypress	12	64	-	1	-	56 79	Corner of North Street.
Linwood Avenue.	10	120	-	1	-	67 36	Paul to Parker Streets.
Nonantum Place.	12	509	-	4	144	472 38	Crafts St. to west of Walnut St.
Walnut	6	80	-	-	-	15 26	At estate of W. H. Stearns, Jr.
Walnut	34	34	-	1	-	60 27	Near Austin Street.
Walnut	15	69	-	-	-	-	{
Walnut	12	97	-	1	-	525 52	{ Near Bullough's Pond.
Walnut	6	159½	-	-	-	-	{
Walnut	*6	668	-	-	-	-	{
Walnut	*4	359	-	-	-	-	{
Ward	8	100	-	1	-	57 69	Near Grant Avenue.
Washington	15	6	-	1	-	251 67	{ Near Walnut Park.
Washington	12	36	3	1	-	-	{
Washington	12	18	-	-	-	-	{
Washington	10	52	-	4	116½	275 98	{ Junction of Park Street.
Washington	8	28	-	-	-	-	{
Totals .....	.....	4,137½	3	22	356½	\$2,650 15	

*Sole tile.

CULVERTS AND CATCH-BASINS.

The following tables show the cost of the culverts or catch-basins constructed or reconstructed during the year, and the name of the street in or under which they are laid or built.

CULVERTS CONSTRUCTED AND RECONSTRUCTED IN 1885.

STREET.	LOCATION.	COST.	REMARKS.
Boylston.....	Near Circuit R. R.	\$97 24	Repairs.
Cabot.....	At Laundry Brook.	15 58	Repairs.
Elliot.....	Near Circuit R. R.	192 17	Rebuilt.
Henshaw.....	Near River Street.	12 25	Repairs.
Total .....	.....	\$317 24	

CATCH-BASINS CONSTRUCTED AND RECONSTRUCTED IN 1885.

STREET.	LOCATION.	COST.	REMARKS.
Beacon	Near Union Street	\$24 51	Two new catch-basins. Repairs of Fire Reservoir.
Chapel	Near Nonantum Worsted Co. .	77 52	
Hovey	Near Waban Street	16 10	
Institution Avenue	At Beacon Street	11 57	
River	Near Cherry Street	10 25	
Washington .....	.....	1 75	Repairs.
Total .....	.....	\$141 70	

MISCELLANEOUS EXPENSES FOR 1885.

Auburn Street, cleaning drain	\$ 9 18
Brighton Street, drainage	344 00
Central Street, cleaning drain	7 00
Cheese Cake Brook, cleaning out	52 50
Cleaning Catch-basins	1,141 73
Cleaning Culverts	30 63
Eldridge Street, cleaning drain	4 75
Grove Street, cleaning drain	10 90
Hammond Street	9 75
Hyde's Brook, cleaning out	100 83
Lagrange Street, repairing bridge	4 65
Margin Street,	3 75
Murray Street, repairs near Highland Avenue	203 24
Murray Street Brook, cleaning out	46 00
Newton Cemetery,	7 36
Newtonville Drain, repairs and cleaning out	123 25
Pearl Street, cleaning out	10 50
Station Street, repairs	11 75

Stock on hand, paid for from appropriation for 1885:

Bricks	\$19 31
Cement	17 34
Cement Pipe	2 99
Covering Stone	12 61
Grate	250 40
Sole tile	24 90
	<hr/>
	\$327 55

Vine Street, repairing bridge	5 39
Washington Street, cor. of Centre Street, drainage	14 04
Waverley Avenue	5 07
Sundries	132 59

Total	<hr/> \$2606 41
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SUMMARY OF EXPENSES, CHARGED TO THE APPROPRIATION
FOR DRAINS AND CULVERTS.

Drains constructed	\$2,650 15
Culverts constructed or reconstructed . .	317 24
Catch-basins constructed or reconstructed .	141 70
Miscellaneous expenses	2,606 41
<hr/>	
Total	\$5,715 50

ASHES.

The collection of ashes is made by the highway department, under the direction of the Highway Surveyors.

Amount appropriated by order of the City Council for the removal of ashes for the year 1885	\$3,500 00
Amount expended as per Auditor's records . .	3,500 00

The following statement will show the cost of the collection of ashes for each ward, and the day of the week on which the collection is made:—

Wards 1 and 7, Thursday . . .	\$1,211 98
Ward 2, Friday	503 04
Ward 3, Saturday	313 50
Ward 4, Monday	313 75
Ward 5, Tuesday	315 00
Ward 6, Wednesday	334 88
<hr/>	
Cost of labor, as per Superintendent's and Assistant Superintendent's records of work .	\$2,992 15
Amount charged by Auditor in excess . . .	507 85
<hr/>	
Total amount expended	\$3,500 00

WATER DEPARTMENT.

Late in the year 1884 the Water Board ordered that investigation be made as to the best means of obtaining an additional water supply and an appropriation of \$500 was made for that purpose. In accordance with said instructions, the various sources from which an additional supply could be obtained were carefully considered. Soundings were made on both sides of the Charles River, from Needham street to and in the Appleton meadows, in order to determine the stratification of the subsoil and the probable yield of ground water to be depended upon.

The result obtained from these soundings seemed to warrant the recommendation (see report to Water Board in their report of this date to the City Council) to take the water required from the Newton side of the river, within the limits of the land already owned by the City. In accordance with the recommendation of said report, an appropriation of \$15,000 was made for that purpose.

The plan proposed was, by means of tubed wells driven to such depth as the stratification of the subsoil would warrant; these wells to be connected together by a main pipe, laid at such a depth as to be below the normal height (grade 91) of the ground water and carried to the pump well with the outlet below low water mark, which is between grade 84.50 and grade 85. It is proposed also to

connect the pipe if enough additional water cannot be obtained, to the suction of the high pressure pump in the basement of the pumping station. By this plan the ground water can be siphoned to grade 85 directly into the well. When a greater supply is required the pump can be used.

Specifications and proposals for performing the work were received from several parties. John A. Gill of Boston was finally engaged to drive such pipe as the Board might direct, to be paid either by the day or by the feet of pipe driven. Work was begun September 2 and continued until October 7. The results of this work not proving as satisfactory as was anticipated, the work was stopped and a contract made with the Manhattan Artesian Well Co. of New York, for performing the work and supplying the water at a given rate per thousand gallons furnished upon the thirty-first day of a continuous test. The contract was signed November 7 and the work is now being performed.

At the request of the Water Registrar plans were made for a new meter testing room, to be located in the basement of the City Hall.

Surveys have been made, levels taken, and lines and grades for the laying of water mains have been established on forty-four streets, covering a total length of three and thirty-three one hundredths miles, and all special castings have been located. There have been located two hundred and fifteen services and extensions laid during the year.

The question of high service supply has received considerable attention and is still under consideration as to details of plans which have been outlined to the Board. The regular meetings of the Water Board have been attended and such subjects investigated or work superintended as specially directed by the Water Board, Registrar or Superintendent.

SEWERAGE.

A Joint Special Committee on Sewerage consisting of Aldermen Edward H. Mason and James H. Nickerson and Councilmen James W. French, George D. Dix and Henry F. Ross was appointed and several meetings held, but no special progress has been made in adopting a system for the city. A report was made to the City Council recommending further consideration and a special investigation as to the system best adapted to the City of Newton.

The plans, profiles, notes and services of the Department were extended to the engineers of the Metropolitan Drainage Commission to assist them in their investigation of the drainage of the valley of the Charles River so far as it affects this city.

PARKS.

The work upon Farlow Park was carried on and completed under the direction of Mr. Henry Ross, Superintendent of the Newton Cemetery. Additional drains and water pipes were laid. A four-inch pipe was laid from the street water main to the pond, it is also designed to connect this pipe with one to be laid from Hyde's Brook. This connection will furnish an abundant supply of water most of the year and in case of failure the supply can be obtained from the city main. The accompanying plan will show the laying out of the park as completed.

Lines and grades were furnished for grading Loring, Lincoln and several smaller parks belonging to the City.

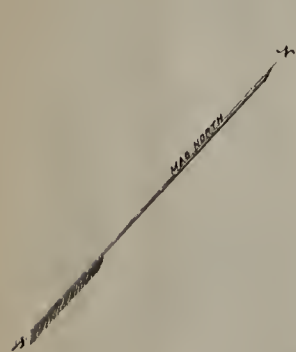
Plan of Parlow Park

AS LAID OUT.

Newton Mass.
1885.

Albert F. Noyes,
City Engineer.

Scale of Feet
0 10 20 30 40



ST.

CHURCH

Play Ground.

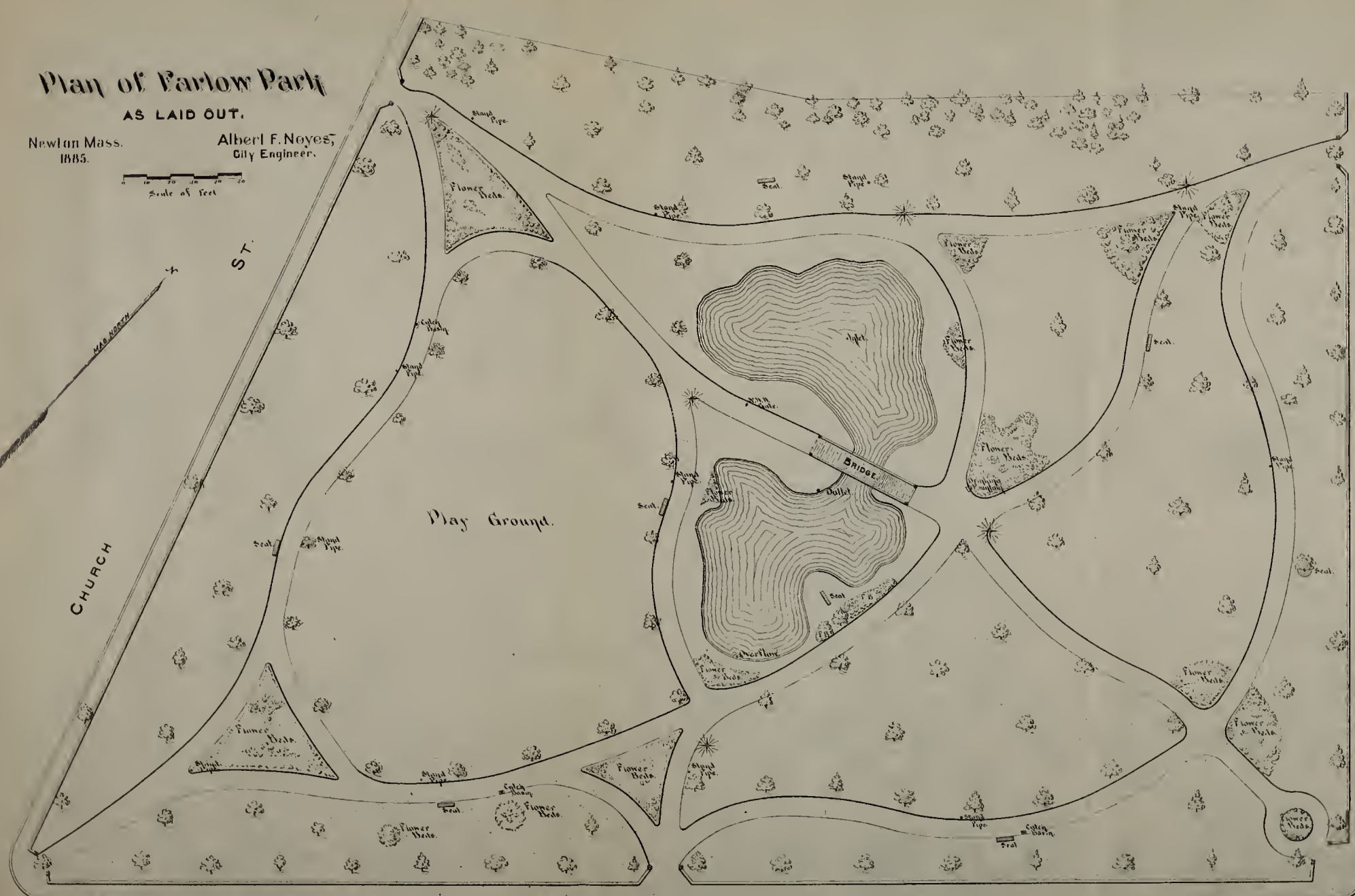
BRIDGE

ST.

VERNON

ELDRIDGE

ST.



PUBLIC PROPERTY.

Under the direction of the Joint Standing Committee on Public Property, the former plans for the alteration of the stables in Ward 5 and for a new building for the steam road roller, portable engine and highway workshop, have been altered and new plans and specifications made. The plumbing in Engine House No. 3 has been put in better sanitary condition and the drainage from the stables improved. Sinks and water for drinking purposes were supplied to the halls on each floor of the Mason School building.

The grading of the grounds about the Rice and Elliot School Houses was completed and the walks at the Rice School concreted. Plans were made for grading and beautifying the grounds of the Williams School. The drainage from the basement of the building was greatly improved, the water being cut off from the walls by laying a tile drain near to and parallel with the walls and leading into a large dry well some distance away.

BOARD OF HEALTH.

As agent of the Board of Health for the Inspection of Plumbing, the inspection has been continued as the work came to the notice of this Department. In accordance with the recommendation of His Honor the Mayor, in his Inaugural Address, a new Board of Health was created consisting of His Honor the Mayor, *ex-officio*, one member from each branch of the City Council and three members at large. The City Engineer was reappointed as Agent of the Board of Health for the Inspection of Plumbing and by vote of the Board was instructed to rigidly enforce the rules. With this assurance of support on the part of the Board in the enforcement of the rules, Principal Assistant Engineer Fred H. Barnes was made principal Inspector of Plumbing and the inspection has been carried on systematically and I am pleased to report a very ready compliance on the part of the plumbers and but little friction. Three hundred and seventy-seven inspections have been made, but to do the work properly in the future will take nearly, if not all, the time of one person. There is still difficulty in obtaining notice of work being done in old houses, but in accordance with previous recommendations the Board, through the City Council, have petitioned the General Court for authority to require all plumbers doing work in this city to be licensed. The passage of such an act will tend to place the responsibility directly where it should be.

ACKNOWLEDGEMENTS.

It gives me great pleasure to acknowledge the very generous support and co-operation of His Honor the Mayor, the Water Board, the Board of Health, and the various committees of the City Council, in the discharge of such duties as the Department has been called upon to perform. This feeling of support and co-operation is essential for one to successfully discharge his various duties. I have also to personally acknowledge the hearty co-operation of the various officials of the Highway Department, the various heads of departments and the assistants of this department. Their co-operation has been a source of support and encouragement to me in my duties.

Respectfully submitted,

ALBERT F. NOYES, City Engineer.

ORDINANCES RELATING TO THE CITY ENGINEER'S DEPARTMENT.

ORDINANCE IX.

CITY ENGINEER.

SECTION 1. The office of City Engineer is hereby established.

Office established.

SECT. 2. He shall have charge of all the plans of the streets, drains, sewers, water-works and lands of the city; and shall classify them and put them in convenient form for reference and use. He shall make all plans, surveys, measurements, and levels pertaining to the streets, drains, sewers, lands, water-works, &c., and perform such other duties properly belonging to his office as may be required of him by the Mayor, the Board of Aldermen, or any committee of the City Council. Drains and sewers shall be constructed and repaired under his supervision and direction.

Duties.

Charge of plans

Make plans, surveys, &c.

SECT. 3. He shall prepare all orders, resolves, and other papers relating to street widenings, extensions, and alterations, which the Joint Standing Committee on Highways may require, and shall furnish the City Solicitor with descriptions of lands at his request.

Orders, &c.

SECT. 4. He shall keep a set of books showing all the debits and credits to every estate, the whole or a portion of which may be taken to lay out, widen, or extend a street, or which may be assessed under any betterment law; and all bills for assessments made under any betterment law shall be made out by him, and deposited with the City Treasurer for collection.

Accounts.

SECT. 5. He shall annually in the month of January present to the City Council a report for the year ending on the last day of December preceding, giving in detail the cost of all special work of the highway department, the expenses of his own department, the number of persons employed therein, and a description of the work done.

Reports.

ORDINANCE XV.

WATER.

SECT. 13. Applications for the extension of the main water-pipes shall be presented to and acted upon by the City Council; but no such extension shall be made until the City Engineer has established the line and grade to which the pipes should be laid, and certified to the same in writing to the Registrar.

Extension of
main water-
pipes.

No extension shall be made upon an unaccepted street unless the City Engineer finds that it is graded to a proper level, and those of the abutters whose consent is necessary give it in due form.

SECT. 14. Applications for service-pipe shall be made to the Registrar. When the cost, esti-

Application for
service-pipe.

mated by him, of the applicant's part has been deposited, the pipe shall be laid. From the main pipe to the street line opposite the point of connection, it shall be laid at the expense of the city, and the remainder at the cost of the applicant. The account shall be adjusted, and any balance paid, before the water is let on.

The location of service-pipe shall be fixed by the City Engineer.

ORDINANCE XVI.

HIGHWAY DEPARTMENT.—STREETS AND WAYS.

SECT. 4. Under the direction of the City Engineer he (the Superintendent of Streets) shall attend to the making and repairing of drains and sewers.

Drains and
sewers.

ORDINANCE XXIV.

BUILDINGS.

SECT. 5. No person shall proceed to erect or make alterations in the location or grade of any fence, wall or building, a part of which is to abut upon a public street, lane, square or alley, without first applying to the City Engineer for the lines and grade of the street, lane, square or alley upon which he intends to build. Such application shall be made at least fifteen days before the work is begun; and the City Engineer shall within said time furnish the required lines and grade without charge, if in his power so to do. In default of such application the city shall be discharged from all responsibility for damages resulting from such default.

Applications to
City Engineer
for street lines
and grade.

SECT. 6. Whenever the City Engineer ascer-
 tains that any structure has been placed in vio-
 lation of the preceding section, he shall at once
 give notice to the Mayor and Aldermen, in writ-
 ing of such violation; and upon receipt of such
 notice the Mayor and Aldermen may forthwith
 issue an order to the party offending, directing
 that the structure be removed within the time
 therein specified; and in case of non-compliance,
 the Mayor and Aldermen shall direct that the
 incumbrance be removed at the expense of the
 delinquent.

SECT. 7. Whoever violates any provision of
 the two preceding sections of this ordinance,
 shall be liable to a fine not exceeding twenty
 dollars.

By vote of the Board of Health June 8, 1885, the City
 Engineer was appointed Agent of the Board for the Inspec-
 tion of Plumbing and authorized to enforce the following
 rules of the Board:

RULES AND REGULATIONS

—OF THE—

BOARD OF HEALTH.

TO BE ENFORCED BY THE AGENT FOR THE INSPECTION OF
PLUMBING.

RULE 1. Every tenement shall be provided with a suitable water-tight privy vault, or with a water-closet connected with a water-tight underground drain of proper size to carry off the contents, and with a similar drain to carry off the waste water to a cesspool.

b. Every privy vault or cesspool shall be built in a thorough and substantial manner, and located so that the inside of the same shall be at least three feet distant from the line of any adjoining lot or street. Cesspools must be of sufficient size to contain at least eighty cubic feet, eighteen inches below the surface of the ground, and, when not water-tight, must be at least twenty feet from the cellar wall of any tenement or dwelling, and two rods distant from any well, spring, or other source of water supply used for culinary purposes.

RULE 17. Unless the Board of Health shall permit otherwise, the drainage system of a hotel, tenement house, dwell-

ing house, stable with sleeping apartments, or factory, in the city of Newton, Massachusetts, shall be constructed as follows:

SECT. 1—FILING PLANS AND SPECIFICATIONS. No person shall proceed to construct, add to, or alter any portion of the drainage system of said buildings (except to repair leaks), until they have filed at the office of the City Engineer, upon blanks in such form as the Board of Health shall order, a notice of the work to be performed. No person shall commence work on such drainage or plumbing until the plans are approved by the Board of Health. Plans and specifications will be approved or rejected within five days of the time of filing. After a plan has once been approved, no alteration of the same will be allowed except on a written application of the owner.

SECT. 2—NOTICE. The Board of Health must be notified when any work is ready for inspection, and all work must be left uncovered and convenient for examination until inspected and approved.

SECT. 3—INSPECTION. All plumbing work in new buildings or new work in old buildings, shall be tested by the Board of Health, with the hydraulic or such other test as the Board may direct; and in case the work does not stand the test, and the same is not repaired within ten days, the water shall be turned off, by order of said Board, and not not let on again till the plumbing has been pronounced satisfactory by the said Board.

SECT. 4—MAIN DRAIN. Every building herein referred to shall be separately and independently connected with a common sewer or cesspool.

That portion of the house-drain which is outside of the building, and more than four (4) feet from the foundation walls, shall be constructed of extra heavy cast iron soil pipe or of the best quality of vitrified drain pipe.

That portion of the house-drain which is inside the walls, or under the building, and that portion outside of the building and within four feet of the foundation wall, must be of iron pipe with a fall of at least one half (1-2) inch to the foot. It must run along the cellar wall, and be securely fastened thereto, or suspended from the floor timbers in iron hangers.

When impracticable, it shall be laid in a trench, beneath the basement or cellar floor, provided with movable covers and walled up of such a width as to admit of access to all joints.

SECT. 5—TRAPS. The house drain must have a trap located beyond all house connections, of the same size as the drain, provided with a hand hole for convenience in cleaning.

SECT. 6—FRESH AIR INLETS. There must be a fresh air inlet pipe entering the drain on the house side of the main trap, of not less than four inches internal diameter, extending therefrom to the external air and terminating at a point not less than three (3) feet above the ground, away from all windows.

SECT. 7—SOIL PIPE. All pipes receiving the discharge from water closets must be of iron at least four (4) inches internal diameter, and continued of undiminished size at least two (2) feet above the roof, away from all windows, and left open at the top.

SECT. 8—BRANCHES. All branches over ten feet in length must be continued of undiminished size to the roof, and carried up at least four inches internal diameter through the roof, and project at least two feet above it, and left open.

SECT. 9—CONNECTIONS. All connections with horizontal pipes shall be made by 1-8 bends and Y branches, and all changes in direction shall be by curved pipe. No trap shall be placed at the foot of a vertical soil pipe.

SECT. 10—WASTE PIPES. All waste pipes from sinks, basins, bath tubs, wash tubs, etc., of two inches or less internal diameter, shall be of lead; all over two inches must be of iron.

SECT. 11—RAIN WATER CONDUCTORS. Wherever rain water conductors are connected with any pipe of the drainage system, of the house, that portion within the house, or under ground, or five feet above the ground, to be of cast iron pipe with lead joints, and in all cases provided with an extra deep trap where it enters the house drain. No rain water conductor shall be used as a soil pipe.

SECT. 12—TRAPS. Every pipe connecting a water closet with the soil pipe must be trapped close to the connection with the water closet. Every waste pipe must be trapped close to the fixture, and separately from any water closet.

SECT. 13—SAFE WASTES. All waste pipes from safes under fixtures must be run separately to basement or cellar, and left open; in no case must they be connected with the soil pipe or any other waste pipe.

SECT. 14—REFRIGERATOR WASTES. No waste pipe from a refrigerator or other receptacle in which food or provisions are stored shall be connected with a drain, soil or other waste pipe, but must be separated therefrom by an open sink or tray furnished with a trap.

SECT. 15—TANK OVERFLOW. All overflow pipes from tanks must be left open and in sight. In no case shall it be run into a soil or waste pipe.

SECT. 16—VENTILATION OF TRAPS. All traps must be furnished with a vent pipe run from the crown of the trap. The vent pipe from a water closet trap must be at least two inches in diameter; other vent pipes must be as large as the waste pipe from the trap. All ventilation pipes from a soil or waste pipe must be run, of undiminished size, separately or

combined together, to the roof and carried up at least four inches, internal diameter, through the roof and at least two feet above it, and left open, or may be run into soil pipe above all connections. In no case shall a soil, waste or ventilating pipe from a soil or waste pipe be connected with a chimney. No brick earthenware or sheet metal pipes shall be used for ventilation pipes from a soil or waste pipe.

SECT. 17—CAST IRON PIPES. All cast iron pipe must be free from holes and other defects, of a uniform thickness of not less than 1-8 inch for a diameter of four inches or less, and not less than 5-32 of an inch for 5 and 6-inch pipe, and shall have the full weight of the following table for the corresponding diameters:

Internal diameter.		Ordinary pipe.		Extra heavy pipe.	
2 inches,	- -	3 1-2 lb.	per ft.	- -	5 1-2 lb. per ft.
3 inches,	- -	4 1-2 "	"	- -	9 1-2 " "
4 inches,	- -	6 1-2 "	"	- -	13 " "
5 inches,	- -	8	" "	- -	17 " "
6 inches,	- -	10	" "	- -	20 " "

And before being connected shall be thoroughly coated inside and out with coal-tar pitch, applied hot by immersion, or some equivalent substance satisfactory to the City Engineer.

SECT. 18—QUALITY OF JOINTS. Every joint in earthen pipe shall be made in hydraulic cement, care being taken that the inside of the joints and of the pipe is properly cleaned out before connection is made with the house. Every joint in lead pipe shall be made in solder, and wiped joints are to be used where practicable. Every joint of an iron and a lead pipe shall be made by a brass ferrule of same size as lead pipe, set in the hub of the branch of the iron pipe, and caulked with lead; the lead pipe to be attached to the ferrule by a wiped solder joint. Every joint in a cast-iron bell and spigot pipe to be made with packed oakum and

molten lead well caulked, at least 1 1-2 inches deep, and made water and air-tight, and no paint or putty shall be allowed until tested. Where screw-joints are used, they shall be packed in red-lead and made steam-tight.

SECT. 19—WATER CLOSET SUPPLY. No water closet shall be supplied directly from the house supply pipe, but shall be supplied from a special water tank or cistern used for no other purpose.

RULE 18. Whoever shall violate any provision of these rules shall be liable to a fine not exceeding one hundred dollars, and a like penalty for every day after the first offence shall be committed.

